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D

SNOW CANYON GARAGE AND STORAGE BUILDING

SNOW CANYON STATE PARK
1002 NORTH, SNOW CANYON DRIVE
IVINS, UTAH

C

DFCM PROJECT NO. 06123510



State of Utah— Department of Administrative Services

A


DIVISION OF FACILITIES CONSTRUCTION AND MANAGEMENT

4110 State Office Building / Salt Lake City, Utah 84114 / 538-3018

October 18, 2006

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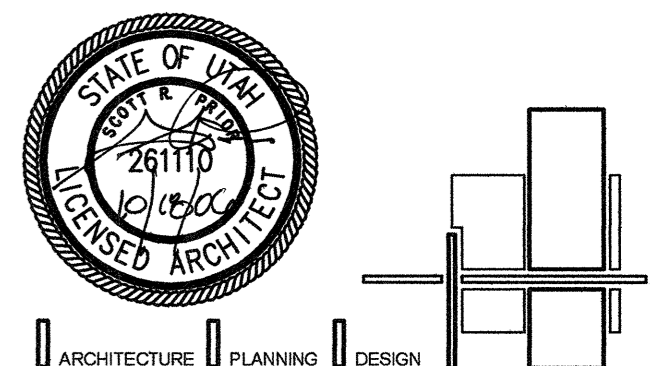
State of Utah
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BUILDING NAME:

DEPARTMENT OF NATURAL
RESOURCES
NEW MAINTENANCE
BUILDING

C
SNOW CANYON
STATE PARK
IVINS, UTAH 84738-9999

PROJECT TITLE:

SNOW CANYON
STATE PARK
IVINS, UTAH 84738-9999

NEW MAINTENANCE
BUILDING

DEPARTMENT OF NATURAL
RESOURCES

B

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SHEET NUMBER

G-I000

SHEET 1 OF 28

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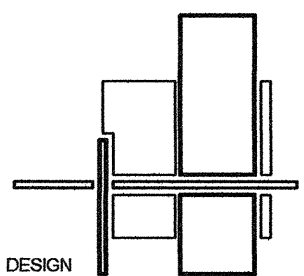
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SHEET 2 OF 28

ABBREVIATIONS

Reference to materials or methods have been made on the drawings in accordance with the following abbreviations:

#	NUMBER	CWB.	GYP. WALL BOARD
FEET		CYP. BD.	GYP. WALL BOARD
INCHES		HC.	HANDICAPPED
AND		HDW.	HARDWARE
AT		H.M.	HOLLOW METAL
DIAMETER		HORIZ.	HORIZONTAL
ADJ.	ADJUSTABLE	HR.	HOUR
AFF.	ABOVE FINISH FLOOR	HT.	HEIGHT
ALUM.	ALUMINUM	HVAC	HEATING/VENTILATION/ AIR CONDITIONING
ASTM	AMERICAN SOCIETY FOR TESTING MATERIALS	HYD	HYDRANT
ATS	AUTOMATIC TRANSFER SWITCH	I.D.	INSIDE DIAMETER
BD.	BOARD	INFO	INFORMATION
BITUM.	BITUMINOUS	INSUL.	INSULATION
BLDG.	BUILDING	LAV.	LAVATORY
B.M.	BENCHMARK	LT.	LIGHT
B.O.	BOTTOM OF	MATL.	MATERIAL
BRG.	BEARING	MAX.	MAXIMUM
BTWN.	BETWEEN	MECH.	MECHANICAL
CER.	CERAMIC	MFR.	MANUFACTURER
CJ.	CONSTRUCTION JOINT	MIN.	MINIMUM
CLG.	CEILING	MISC.	MISCELLANEOUS
CLR.	CLEAR	M.O.	MASONRY OPENING
CMU	CONCRETE MASONRY UNIT	MTL.	METAL
COL.	COLUMN	NO.	NOT IN CONTRACT NUMBER
CONC.	CONCRETE	N.T.S.	NOT TO SCALE
CONT.	CONTINUOUS	O.C.	ON CENTER
CONST.	CONSTRUCTION	O.D.	OUTSIDE DIAMETER
COORD.	COORDINATE	O.H.	OVERHEAD
CTJ.	CONTRACTION JOINT	OPP.	OPPOSITE
DBL.	DOUBLE	PART.	PARTITION
DPW.	DIRECTOR OF PUBLIC WORKS	PERP.	PERPENDICULAR
DIA.	DIAMETER	PL.	PLATE
DPG.	DUGWAY PROVING GROUND	PNTD.	PAINTED
DTL.	DETAIL	PSI	POUNDS PER SQUARE INCH
DWCS.	DRAWINGS	R.D.	ROOF DRAIN
EA.	EACH	RAD.	RADIUS
EJ.	EXPANSION JOINT	REINF.	REINFORCED
ELEV.	ELEVATION	REQ'D	REQUIRED
EQ.	EQUAL	RET.	RETURN
E.S.	EACH SIDE	REV.	REVERSED
EXIST.	EXISTING	RM.	ROOM
EXPAN.	EXPANSION	R.O.	ROUGH OPENING
EXT.	EXTERIOR	SCHED.	SCHEDULE
E.W.C.	ELECTRIC WATER COOLER	SHR.	SHOWER
F.D.	FLOOR DRAIN	SHT.	SHEET
FDN.	FOUNDATION	SM.	SIMILAR
F.E.	FIRE EXTINGUISHER	SPEC.	SPECIFICATION
F.E.C.	FIRE EXTINGUISHER CABINET	STD.	STANDARD
F.F.	FINISH FLOOR	STR.	STRUCTURAL
FIN.	FINISH	SUSP.	SUSPENDED
FLR.	FLOOR	THRU	THROUGH
F.L.	FLOW LINE	T.O.	TOP OF
FTG.	FOOTING	T.O.A.	TOP OF ASPHALT
GA.	GAGE	T.O.C.	TOP OF CURB
GALV.	GALVANIZED	T.O.F.	TOP OF FOOTING
GF-CI	GOVERNMENT FURNISHED CONTRACTOR INSTALLED	T.O.S.	TOP OF SLAB OR SIDEWALK
GF-GI	GOVERNMENT FURNISHED CONTRACTOR INSTALLED	T.O.W.	TOP OF WALL
G.I.	GALVANIZED STEEL	TYP.	TYPICAL
GND.	GROUND	VERT.	VERTICAL
GOVT.	GOVERNMENT	VEST.	VESTIBULE
		W/	WITH
		WD	WOOD

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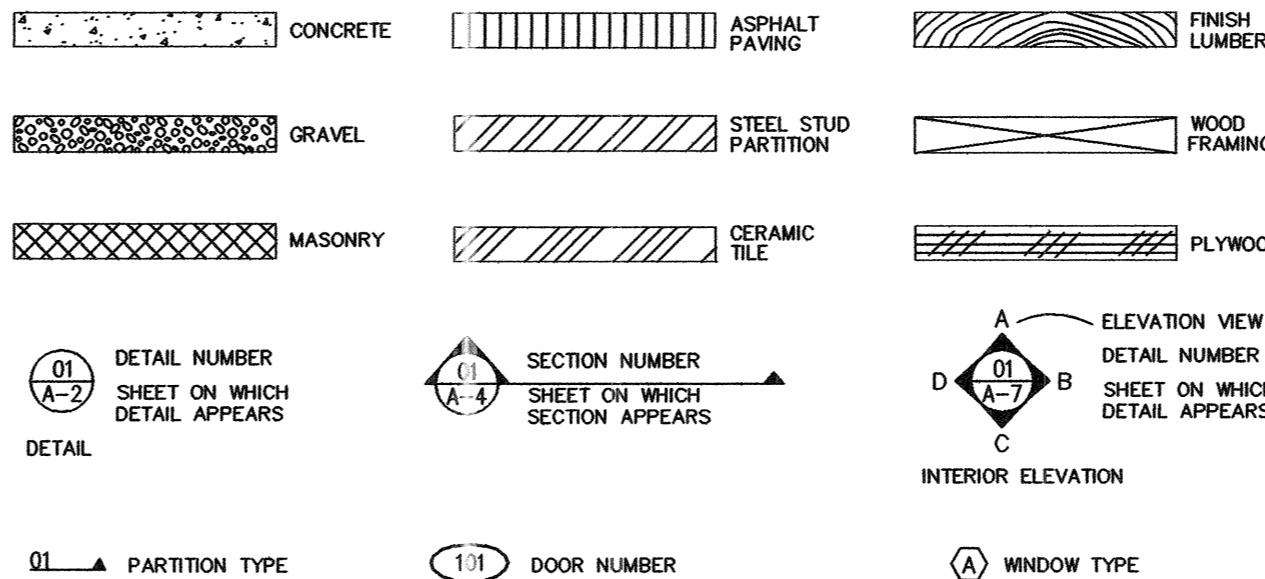
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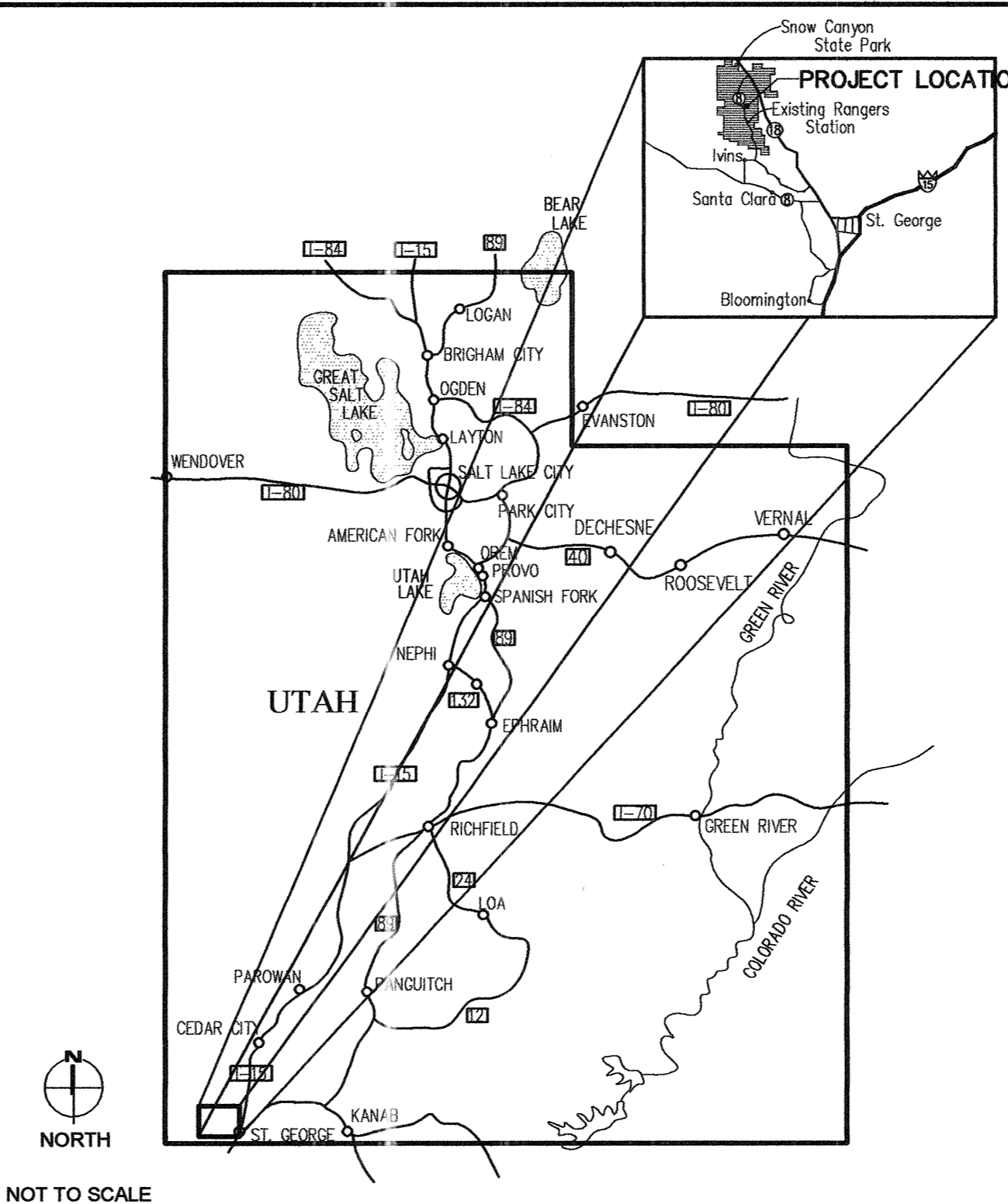
ELECTRICAL

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GRAPHIC KEY



VICINITY MAP



DFCM DESIGN AND CODE CRITERIA

APPLICABLE CODES

	Year		Year
International Building Code	2003	National Electrical Code	2005
International Mechanical Code	2003	Uniform Code for	
International Plumbing Code	2003	Building Conservation	N/A
International Fire Code	2003	ADA Accessibility	
International Energy Conservation Code	2003	Guidelines	2003

A. Occupancy and Group: S-2
Change in Use: Yes NO No X Mixed Occupancy: Yes NO No X
Special Use and Occupancy (e.g. High Rise, Covered Mall): NO

B. Seismic Design Category: D1 Design Wind Speed: 90 mph

C. Type of Construction (circle one):
I II III IV V VI
A B A B A B

D. Fire Resistance Rating Requirements for the Exterior Walls based on the fire separation distance (in hours):
North: N/A South: N/A East: N/A West: N/A

E. Mixed Occupancies: NO Nonseparated Uses: NO

F. Sprinklers:
Required: NO Provided: NO Type of Sprinkler System: N/A

G. Number of Stories: 1 Building Height: 12'-0"

H. Actual Area per Floor (square feet): 1500 ACTUAL SQUARE FEET

I. Tabular Area: 13,500 SQUARE FEET (AS PER TABLE 503)

J. Area Modifications:
 $A_a = A_1 + \frac{A_1 I_1}{100} + \frac{A_1 I_2}{100}$ $I_1 = 100 \left[\frac{F}{P} - 0.25 \right] \frac{W}{30}$

b) Sum of the Ratio Calculations for Mixed Occupancies:
Actual Area ≤ Allowable Area

c) Total Allowable Area for:
1) One Story: —
2) Two Story: A₂(2)
3) Three Story: A₃(3)

d) Unlimited Area Building: Yes NO No X Code Section: N/A

K. Fire Resistance Rating Requirements for Building Elements (hours).

Element	Hours	Assembly Listing	Element	Hours	Assembly Listing
Exterior Bearing Walls	0	—	Floors - Ceiling Floors	0	—
Interior Bearing Walls	0	—	Roofs - Ceiling Roofs	0	—
Exterior Non-Bearing Walls	0	—	Exterior Doors and Windows	0	—
Structural Frame	0	—	Shaft Enclosures	N/A	—
Partitions - Permanent	0	—	Fire Walls	0	—
Fire Barriers	0	—	Fire Partitions	0	—
			Smoke Partitions	0	—

L. Design Occupant Load: 1 PER 300 @ 1376 SQ. FT. = 4.58 OCCUPANTS.

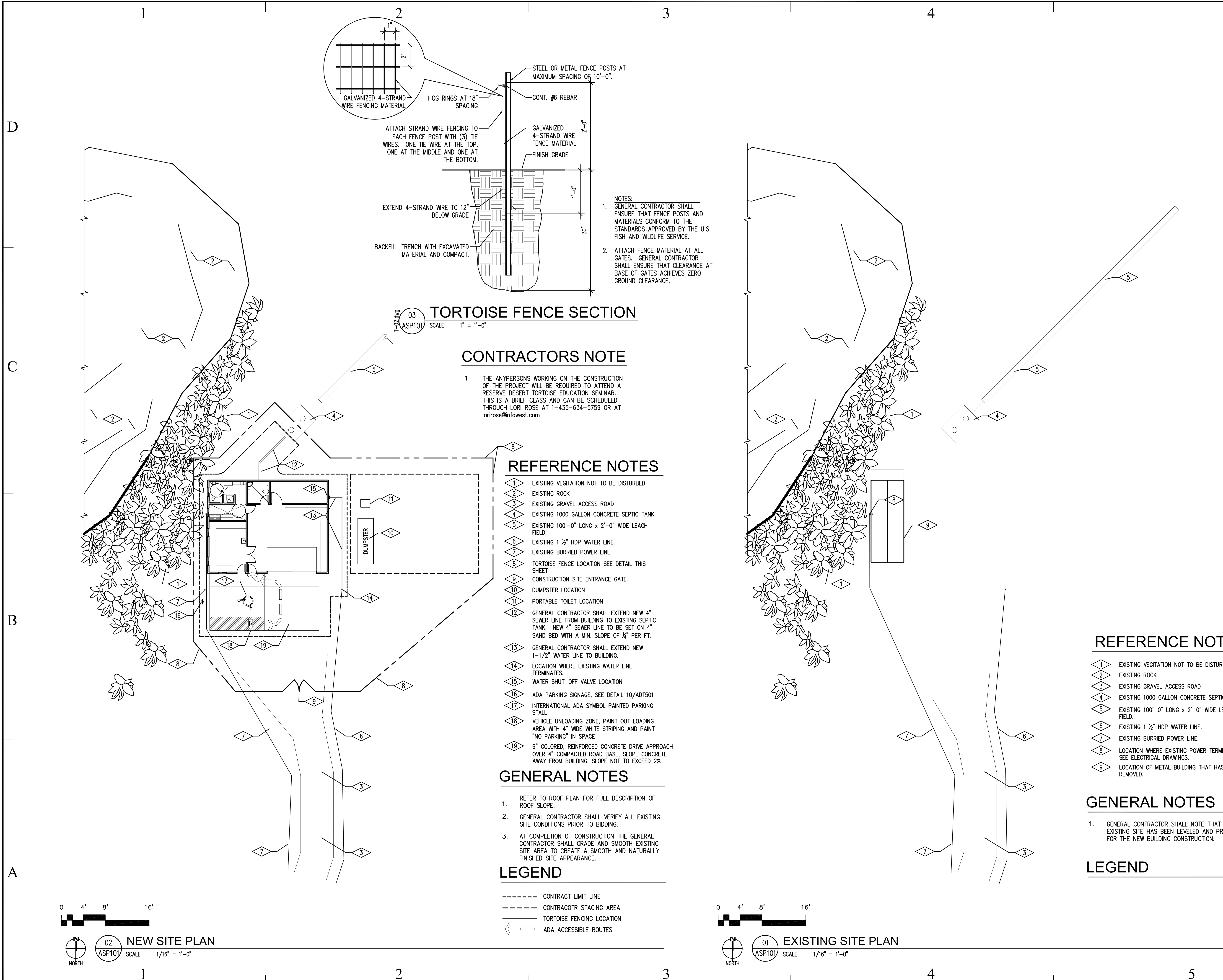
Exit Width Required: 3'-0" Exit Width Provided: 3'-0"

M. Minimum Number of Required Plumbing Facilities:

a) Water Closets - Required (m) 1per25 (f) 1per25 Provided (m) 1 (f) 1
b) Lavatories - Required (m) 1per40 (f) 1per40 Provided (m) 1 (f) 1
c) Bath Tubs or Showers: 1 PROVIDED.
d) Drinking Fountains: NOT REQ. Service Sinks: 1 PROVIDED.

FOOTNOTES:

- In case of conflict with the U.S. Department of Justice Federal Registers Parts I through X - ADA Guidelines and specific reference to the International Building Code Accessibility Chapters, the more restrictive requirement shall govern.
- Additional Code Information shall be provided at the discretion of the Building Official for Complex Buildings. Including, but not limited to:
 - High Rise Requirements.
 - Atriums.
 - Performance Based Criteria.
 - Means or Egress Analysis.
 - Fire Assembly Locator Sheet.
 - Exterior and Interior Accessibility Route.
 - Fire Stopping, Including Tested Design Number.



REFERENCE NOTES

- 1 5'-0" DIA. A.D.A. TURNING CIRCLE
- 2 6" COLORED, REINFORCED CONCRETE DRIVE APPROACH OVER 4" COMPACTED ROAD BASE, SLOPE CONCRETE AWAY FROM BUILDING. SLOPE NOT TO EXCEED 2%
- 3 ADA PARKING SIGNAGE, SEE DETAIL 10/ADT501
- 4 JANITORS SINK W/ MOP RACK, SEE PLUMBING DRAWINGS
- 5 WASHER AND DRYER N.I.C.
- 6 UTILITY SINK, SEE PLUMBING DRAWINGS
- 7 METAL LOCKERS, SEE INTERIOR ELEVATIONS AND SPECIFICATIONS
- 8 PLASTIC LAMINATE WORK BENCH, SEE INTERIOR ELEVATIONS
- 9 INSULATED SECTIONAL O.H. GARAGE DOOR, SEE SPECIFICATION
- 10 6" REINFORCED, SEALED CONCRETE FLOOR SLAB OVER 4" COMPACTED ROAD BASE
- 11 3/4" SANDED ONE SIDE PLYWOOD SHELF ON HEAVY DUTY SHELFING STANDARDS AND BRACKETS, SEE INTERIOR ELEVATIONS
- 12 CONCRETE CONTROL JOINT.

GENERAL NOTES

- 1. REFER TO FINISH SCHEDULE FOR ADDITIONAL FINISH NOTES.
- 2. SEE WALL TYPES FOR WALL ASSEMBLIES.

FLOOR PLAN LEGEND

- 100A DOOR TAG
- RM. NAME ROOM TAG
- 100 ROOM TAG
- 03 WINDOW TAG
- F.D. FLOOR DRAIN
- WT-01 WALL TYPE, SEE WALL TYPES SHEET ASC300
- DRY WASH WASHER AND DRYER, N.I.C.
- WH WATER HEATER, SEE PLUMBING DRAWINGS
- FURN ELECTRIC FURNACE, SEE MECHANICAL DRAWINGS
- HATCH HATCH PATTERN INDICATED LOCATION OF COLORED CONCRETE.

REFERENCE NOTES

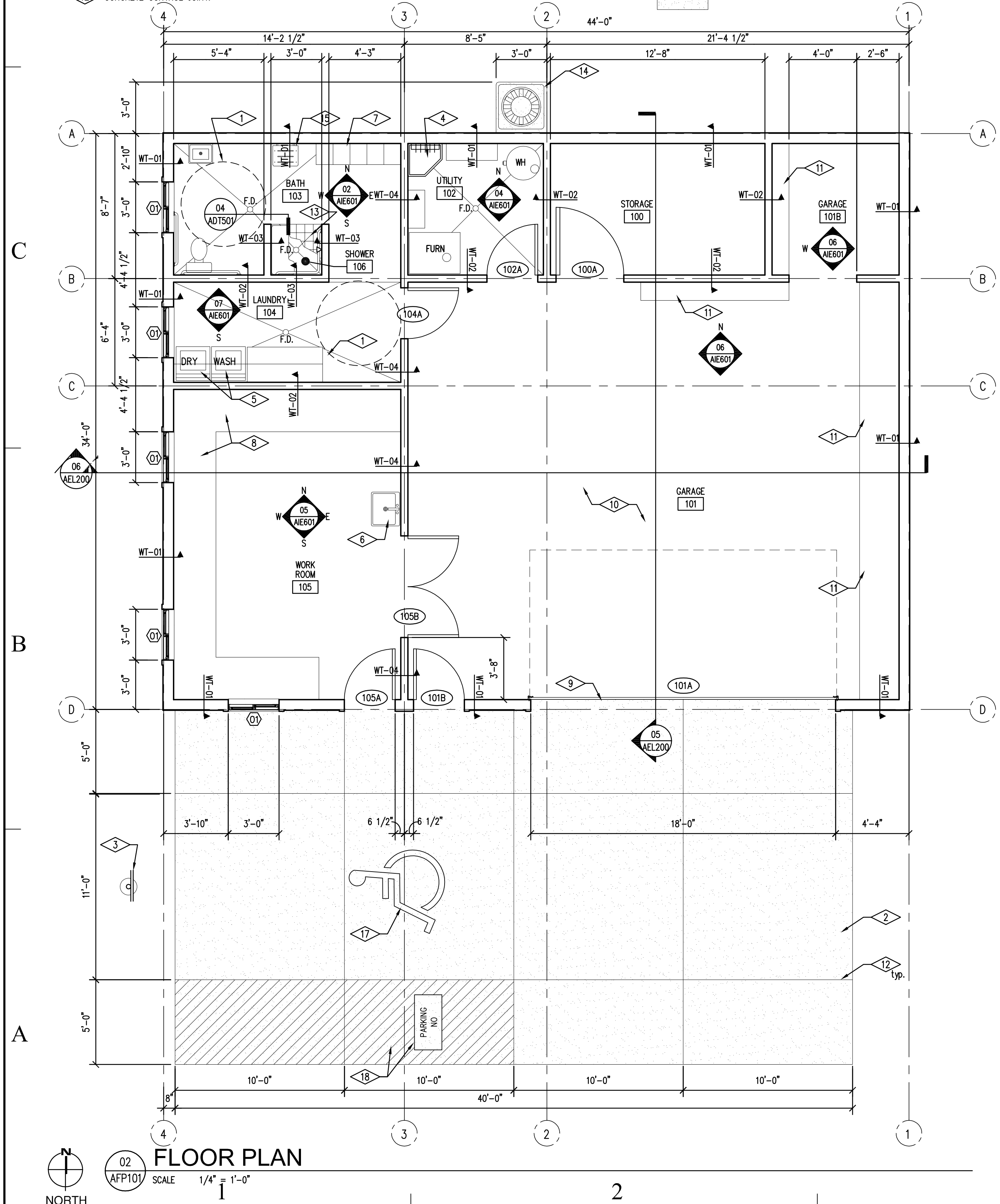
- 1 SKYLIGHTS ABOVE, SEE DETAILS AND SPECIFICATIONS

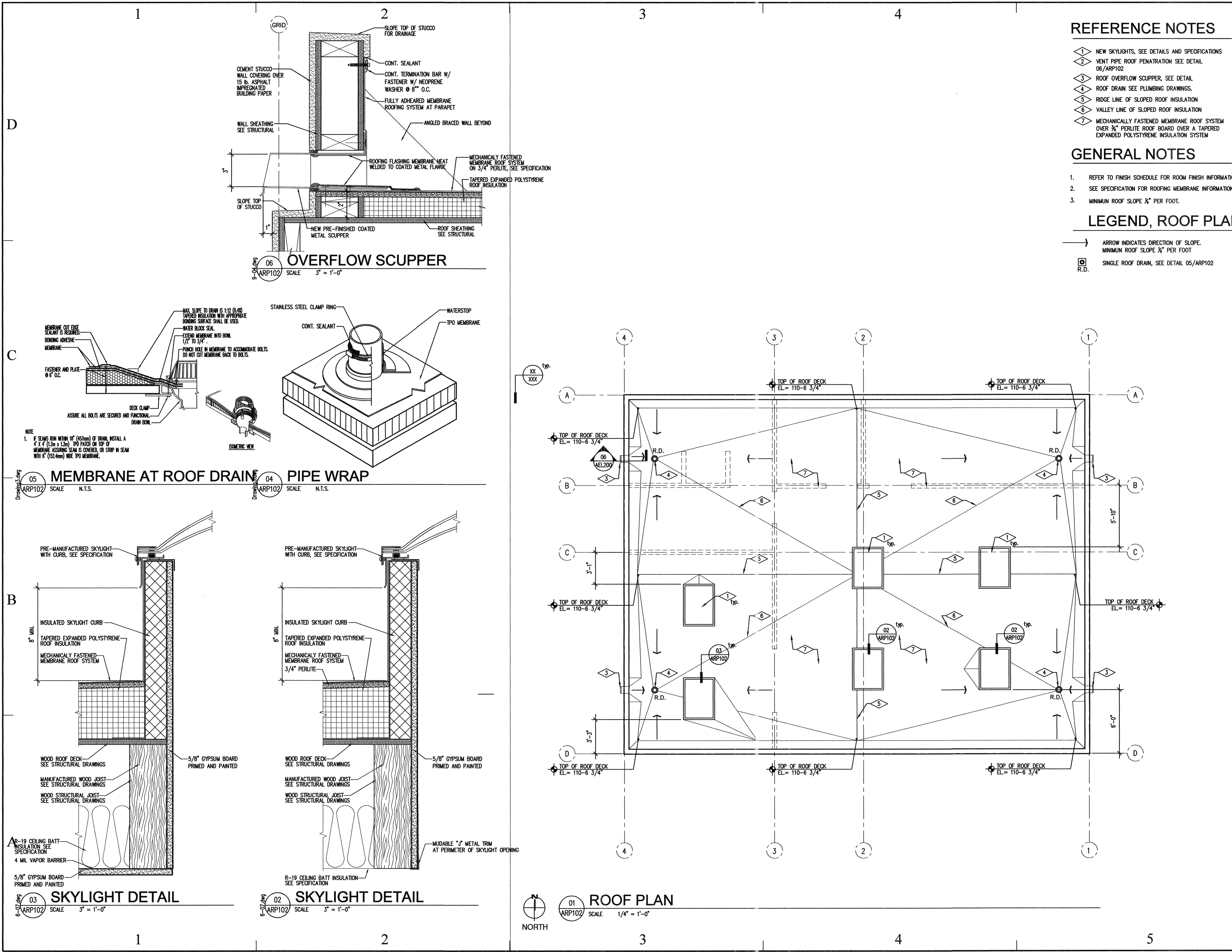
GENERAL NOTES

- 1. REFER TO FINISH SCHEDULE FOR ADDITIONAL FINISH NOTES.
- 2. NEW SUSPENDED CEILING GRIDS SHALL BE CENTERED IN SPACES AS SHOWN ON REFLECTED CEILING PLANS, UNLESS SHOWN OTHERWISE.

LEGEND CEILING PLAN

- 101 ROOM NUMBER
- 9-0' CEILING HEIGHT
- CI-1 CEILING TYPE
- CEILING FAN, SEE MECHANICAL DRAWINGS
- 1x4' SURFACE MOUNTED LIGHT FIXTURE, SEE ELECTRICAL DRAWINGS
- 1x8' CEILING LIGHT FIXTURE, SEE ELECTRICAL DRAWINGS
- WALL MOUNTED LIGHT FIXTURE, SEE ELECTRICAL DRAWINGS





REFERENCE NOTES

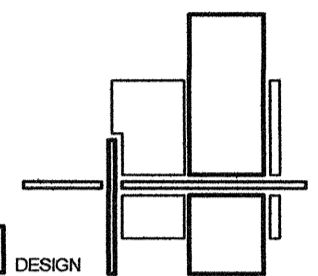
- 1 NEW SKYLIGHTS, SEE DETAILS AND SPECIFICATIONS
- 2 VENT PIPE ROOF PENETRATION SEE DETAIL 06/ARP102
- 3 ROOF OVERFLOW SCUPPER, SEE DETAIL
- 4 ROOF DRAIN SEE PLUMBING DRAWINGS.
- 5 RIDGE LINE OF SLOPED ROOF INSULATION
- 6 VALLEY LINE OF SLOPED ROOF INSULATION
- 7 MECHANICALLY FASTENED MEMBRANE ROOF SYSTEM OVER 3/4" PERLITE ROOF BOARD OVER A TAPERED EXPANDED POLYSTYRENE INSULATION SYSTEM

GENERAL NOTES

- 1. REFER TO FINISH SCHEDULE FOR ROOM FINISH INFORMATION
- 2. SEE SPECIFICATION FOR ROOFING MEMBRANE INFORMATION
- 3. MINIMUM ROOF SLOPE 1/4" PER FOOT.

LEGEND, ROOF PLAN

- ARROW INDICATES DIRECTION OF SLOPE. MINIMUM ROOF SLOPE 1/4" PER FOOT
- R.D. SINGLE ROOF DRAIN, SEE DETAIL 05/ARP102



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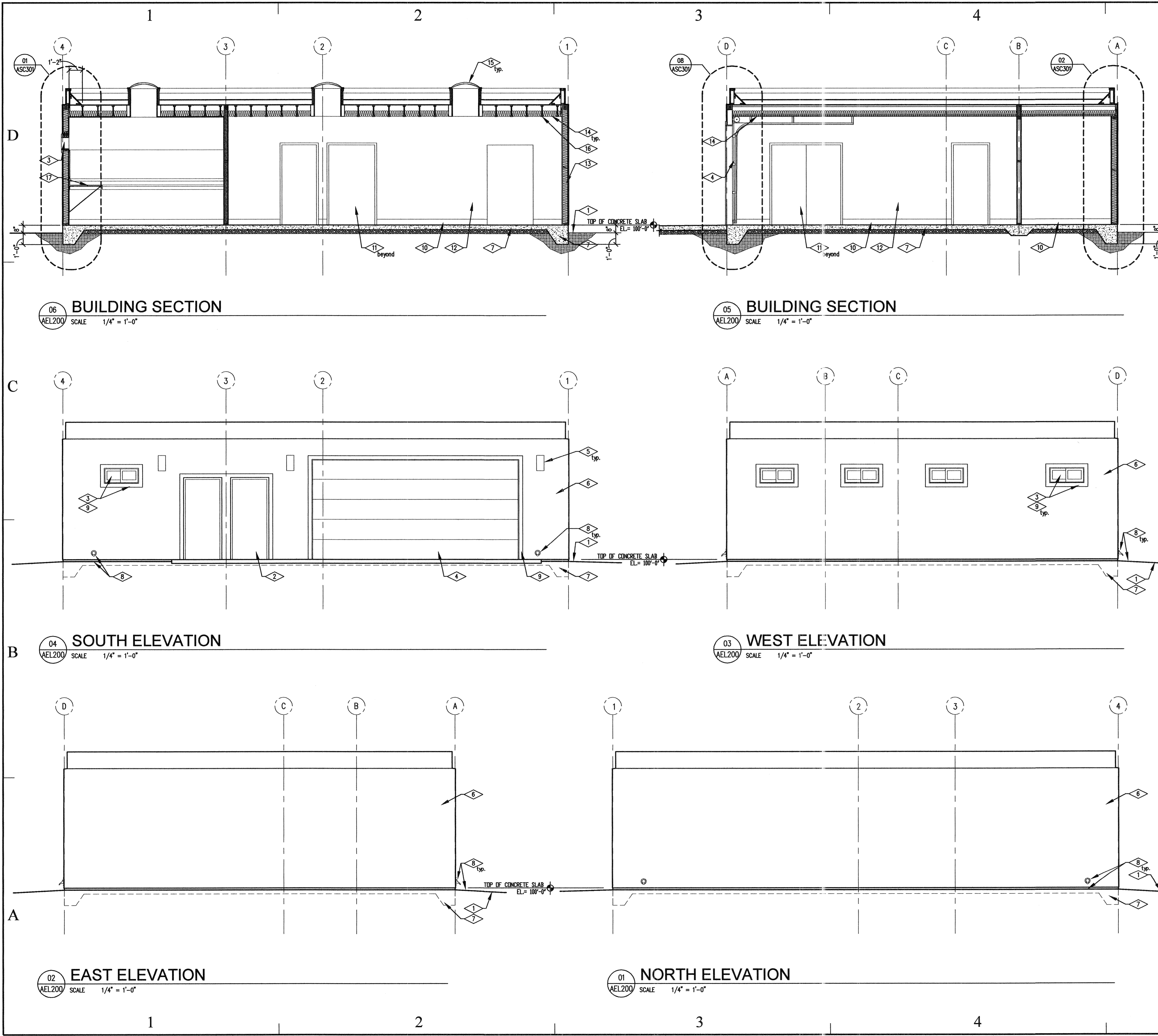
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ROOF PLAN		
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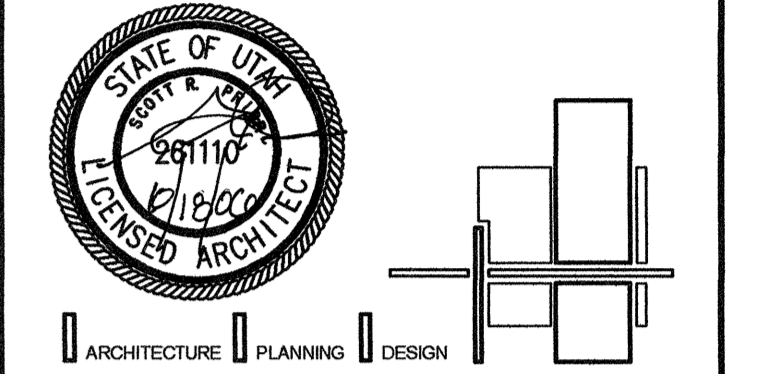


REFERENCE NOTES

- 1 FINISH GRADE
- 2 EXTERIOR HOLLOW METAL DOOR, SEE SCHEDULE
- 3 METAL CLAD WOOD WINDOW SYSTEM, SEE WINDOW SCHEDULE AND DETAILS
- 4 INSULATED SECTIONAL OVERHEAD DOOR, SEE DOOR TYPES
- 5 LIGHT FIXTURE, SEE ELECTRICAL DRAWINGS
- 6 CEMENTIOUS STUCCO SYSTEM, SEE SPECIFICATION
- 7 MONOLITHIC CONCRETE FLOOR SLAB AND FOOTING, CONCRETE FLOOR SLAB TO BE REINFORCED 5" THICK OVER 4" COMPACTED ROAD BASE.
- 8 ROOF DRAIN OVERFLOW SPOUT WITH PRECAST CONCRETE CONCRETE SPLASH AT BASE. SEE PLUMBING DRAWINGS.
- 9 STUCCO POP-OUTS AT PERIMETER OF DOOR AND WINDOWS, SEE DETAILS.
- 10 6" COVED RUBBER BASE, SEE FINISHED SCHEDULE AND SPECIFICATION.
- 11 PRIMED AND PAINTED HOLLOW METAL DOOR AND FRAME, SEE DOOR AND FRAM SCHEDULE.
- 12 PRIMED AND PAINTED GYPSUM BOARD WALLS, SEE FINISH SCHEDULE.
- 13 R-19 BATT INSULATION.
- 14 KRAFT PAPER FACED R-19 BATT INSULATION, SEE REFLECTED CEILING PLAN.
- 15 UNIT SKYLIGHT, SEE SPECIFICATIONS AND DETAILS
- 16 ROOF JOISTS, SEE STRUCTURAL DRAWINGS
- 17 WORK ROOM PLASTIC LAMINATE COUNTERTOPS AND PEG BOARD. SEE INTERIOR ELEVATIONS, CASEWORK SECTIONS AND SPECIFICATIONS.

GENERAL NOTES

- 1. REFER TO FINISH SCHEDULE FOR ROOM FINISH INFORMATION



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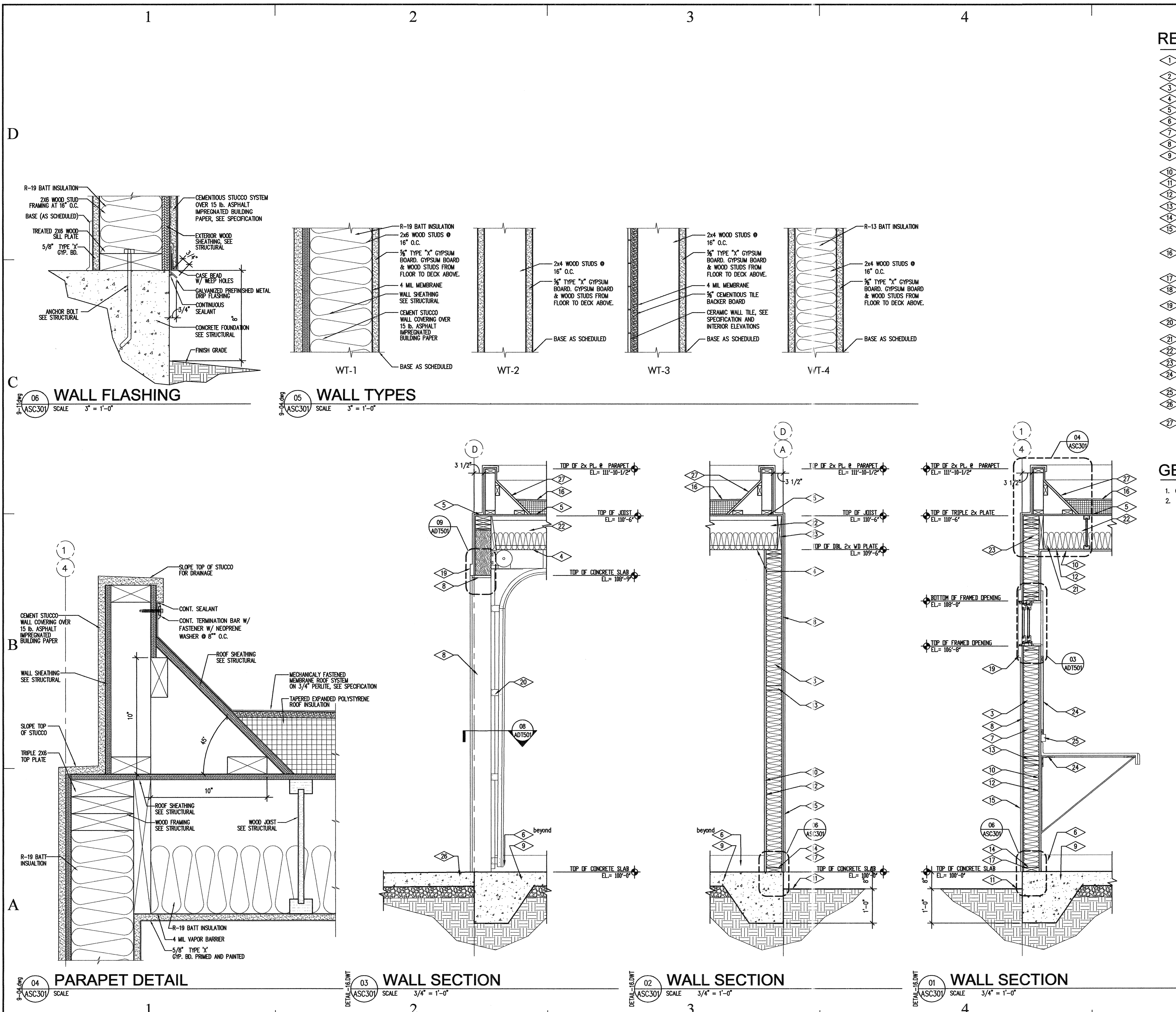
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SHEET NUMBER

A-EL200

SHEET 6 OF 28

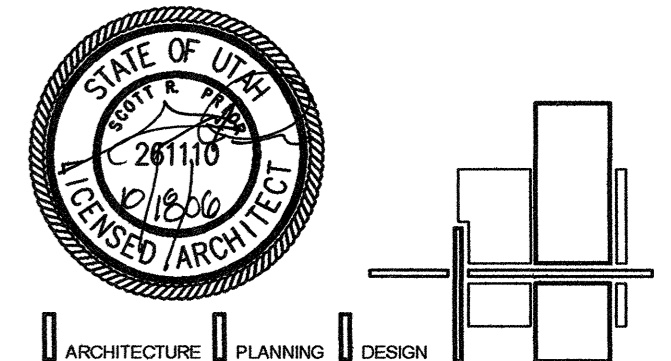


REFERENCE NOTES

- 1 LOW HEIGHT CLEARANCE INSULATED SECTIONAL OVERHEAD GARAGE DOOR, SEE FINISH SCHEDULE
- 2 CONCRETE FOUNDATION WALL, SEE STRUCTURAL
- 3 R-19 BATT INSULATION
- 4 KRAFT PAPER FACED R-19 BATT INSULATION
- 5 ROOF SHEATHING, SEE STRUCTURAL
- 6 BASE, AS SCHEDULED
- 7 2X6 WOOD STUD WALL FRAMING @ 16" O.C.
- 8 APA RATED WALL SHEATHING, SEE STRUCTURAL
- 9 5" CONCRETE FLOOR SLAB OVER 4" COMPACTED ROAD BASE, SEE STRUCTURAL
- 10 5/8" GYPSUM BOARD, PRIMED AND PAINTED
- 11 FINISH GRADE
- 12 4 MIL VAPOR BARRIER
- 13 2X6 WOOD BLOCKING
- 14 ANCHOR BOLT, SEE STRUCTURAL
- 15 CEMENTICIOUS STUCCO WALL FINISH SYSTEM ON 15 LB. ASPHALT IMPREGNATED BUILDING PAPER, SEE SPECIFICATION
- 16 MECHANICALLY FASTENED T.P.O. ROOFING MEMBRANE SYSTEM ON 3/4" PERLITE ROOFING BOARD ON TAPERED EXPANDED POLYSTYRENE ROOF INSULATION
- 17 TREATED 2X6 SILL PLATE WITH FOAM SILL GASKET.
- 18 1x CEMENT FIBER BOARD, PRIMED AND PAINTED, AT PERIMETER OF GARAGE DOORS OPENING.
- 19 STUCCO BUMP-OUTS AT OPENINGS, SEE BUILDING ELEVATIONS AND DETAILS.
- 20 LOW HEIGHT CLEARANCE INSULATED SECTIONAL O.H. GARAGE DOOR, SEE DOOR SCHEDULE.
- 21 R-19 BATT INSULATION
- 22 ROOF JOIST SYSTEM, SEE STRUCTURAL DRAWINGS
- 23 CONT. RIM JOIST, SEE STRUCTURAL DRAWINGS
- 24 WORK ROOM COUNTERTOP WITH PEG BOARD, SEE INTERIOR ELEVATIONS AND CASEWORK SECTIONS.
- 25 ELECTRICAL PLUG MOLDING, SEE ELECTRICAL DRAWINGS
- 26 5" REINFORCED, COLORED, EXTERIOR CONCRETE SLAB OVER 4" COMPACTED ROAD BASE
- 27 CONT. ROOF SHEATHING AND 2"x4" STUD FRAMING DIAGONAL BRACED PARAPET WALL.

GENERAL NOTES

- 1. GRIDS ARE TYPICALLY FACE OF SHEATHING
- 2. REFER TO FINISH SCHEDULE FOR ROOM FINISH INFORMATION



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WALL SECTIONS
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DETAILS

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A-SC301

SHEET 7 OF 28

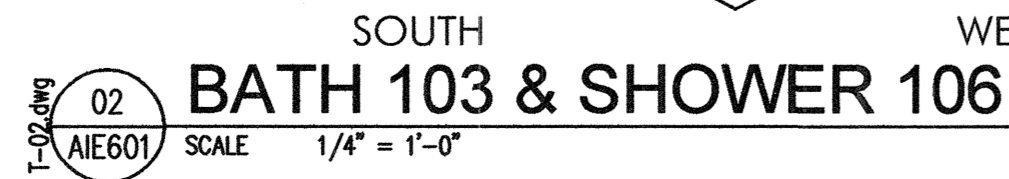
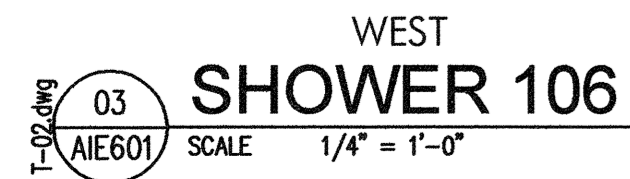
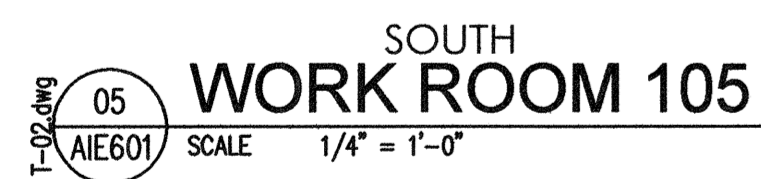
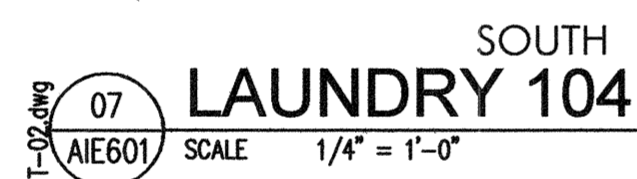
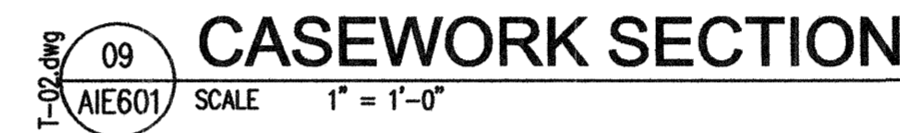
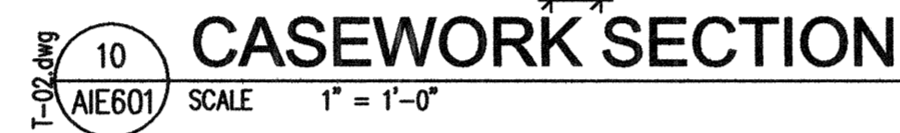
SNOW CANYON
STATE PARK
IVINS, UTAH 84738-9999

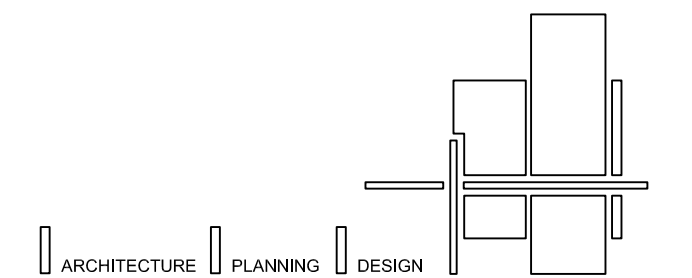
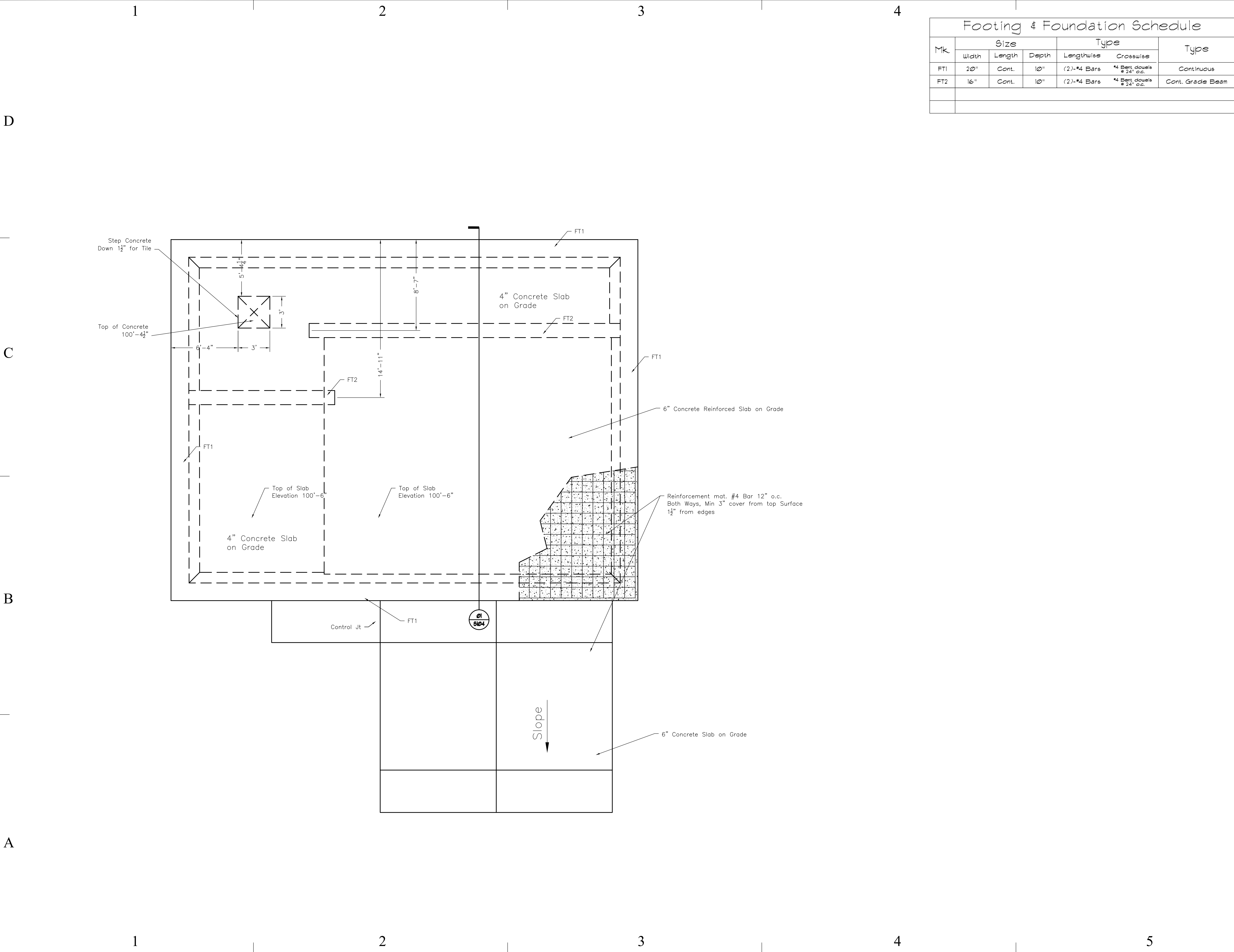
NEW MAINTENANCE BUILDING

DEPARTMENT OF NATURAL
RESOURCES

- 1 ACCESSIBLE WATER CLOSET, SEE PLUMBING DRAWINGS
- 2 WALL MOUNTED GRAB BAR, SEE SPECIFICATION SECTION 09653
- 3 SOAP DISPENSER, SEE SPECIFICATION
- 4 JANITORS FLOOR SINK, SEE PLUMBING DRAWINGS
- 5 LAVATORY, SEE PLUMBING DRAWINGS
- 6 SHOWER GRAB BAR, SEE SPECIFICATION
- 7 MOP RACK, SEE SPECIFICATION
- 8 SHOWER HEAD AND CONTROLS, SEE INTERIOR ELEVATIONS & PLUMBING DRAWINGS
- 9 SOLID PHENOLIC FOLDING SHOWER SEAT, SEE SPECIFICATION.
- 10 6" RUBBER BASE, SEE SPECIFICATION
- 11 PAPER TOWEL DISPENSER, SEE SPECIFICATION.
- 12 SANITATION SEAT COVERING DISPENSER, SEE SPECIFICATION
- 13 TOILET PAPER DISPENSER, SEE SPECIFICATION
- 14 MIRROR, SEE SPECIFICATION
- 15 PAINTED GYPSUM BOARD WALL
- 16 ROBE HOOK, SEE SPECIFICATION SECTION
- 17 CONTRACTOR SHALL PROVIDE ADA PIPE PROTECTION AT ALL EXPOSED PIPING
- 18 (5) METAL LOCKERS, SEE SPECIFICATION
- 19 PRIMED AND PAINTED HOLLOW METAL DOOR, SEE DOOR SCHEDULE AND SPECIFICATION
- 20 UTILITY SINK, SEE PLUMBING DRAWINGS
- 21 PEG BOARD ATTACHED TO WALL WITH 1x3 WOOD FRAMING AT 24" O.C.
- 22 METAL CLAD, HORIZONTAL SLIDER WINDOW WITH SCREEN. INTERIOR WINDOW TRIM TO BE 1"x4" POPLAR, PRIMED AND PAINTED.
- 23 METAL BRACKET COUNTERTOP SUPPORT, SEE CASEWORK SECTIONS.
- 24 ELECTRIC PLUG MOLDING, SEE ELECTRICAL DRAWINGS
- 25 PRE-FORMED PLASTIC LAMINATE COUNTERTOP, SEE SECTION.
- 26 PLASTIC LAMINATE CABINETS WITH ADJUSTABLE SHELF.
- 27 WASHER AND DRYER N.I.C.
- 28 HEAVY DUTY SHELF BRACKETS AND STANDARDS.
- 29 3/4" SANDED ONE SIDE, 13" WIDE PLYWOOD SHELF'S AT LOCATION SHOWN.
- 30 SHOWER CURTAIN AND ROD, SEE SPECIFICATION.
- 31 6"x6" CERAMIC WALL TILE, PROVIDE (2) TWO COLORS, SEE SPECIFICATION
- 32 4" WIRE DOOR AND DRAWER PULL, SEE SPECIFICATION
- 33 UTILITY SINK, SEE PLUMBING DRAWINGS
- 34 CHANGING BENCH, SEE SPECIFICATION
- 35 F.R.P. BEHIND JANITORS SINK EA. WALL TO 8'-0" A.F.F., SEE SPECIFICATIONS
- 36 F.R.P. WAINSCOT 4'-0" A.F.F., SEE SPECIFICATIONS

1. REFER TO FINISH SCHEDULE FOR ADDITIONAL FINISH NOTES
2. CONTRACTOR TO FIELD VERIFY LOCATION AND PLACEMENT OF ALL FIXTURES AND ACCESSORIES AND COORDINATE WITH A.D.A. REQUIREMENTS
3. CONTRACTOR SHALL PROVIDE ADA PIPE PROTECTION AT ALL EXPOSED PIPING





BUILDING NAME:

PROJECT TITLE:

MARK	DATE	DESCRIPTION
ISSUE TYPE:		

ISSUE DATE:

DFCM PROJECT NO: 06123510
CAD PROJECT NO: 2006-06
CAD DWG FILE:
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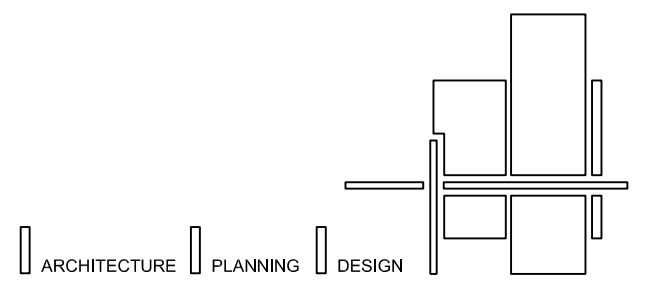
SHEET TITLE

**Foundation &
Slab Plan**

SHEET NUMBER

S-101

P+A architects
821 East Kensington Ave.
Salt Lake City, Utah 84105
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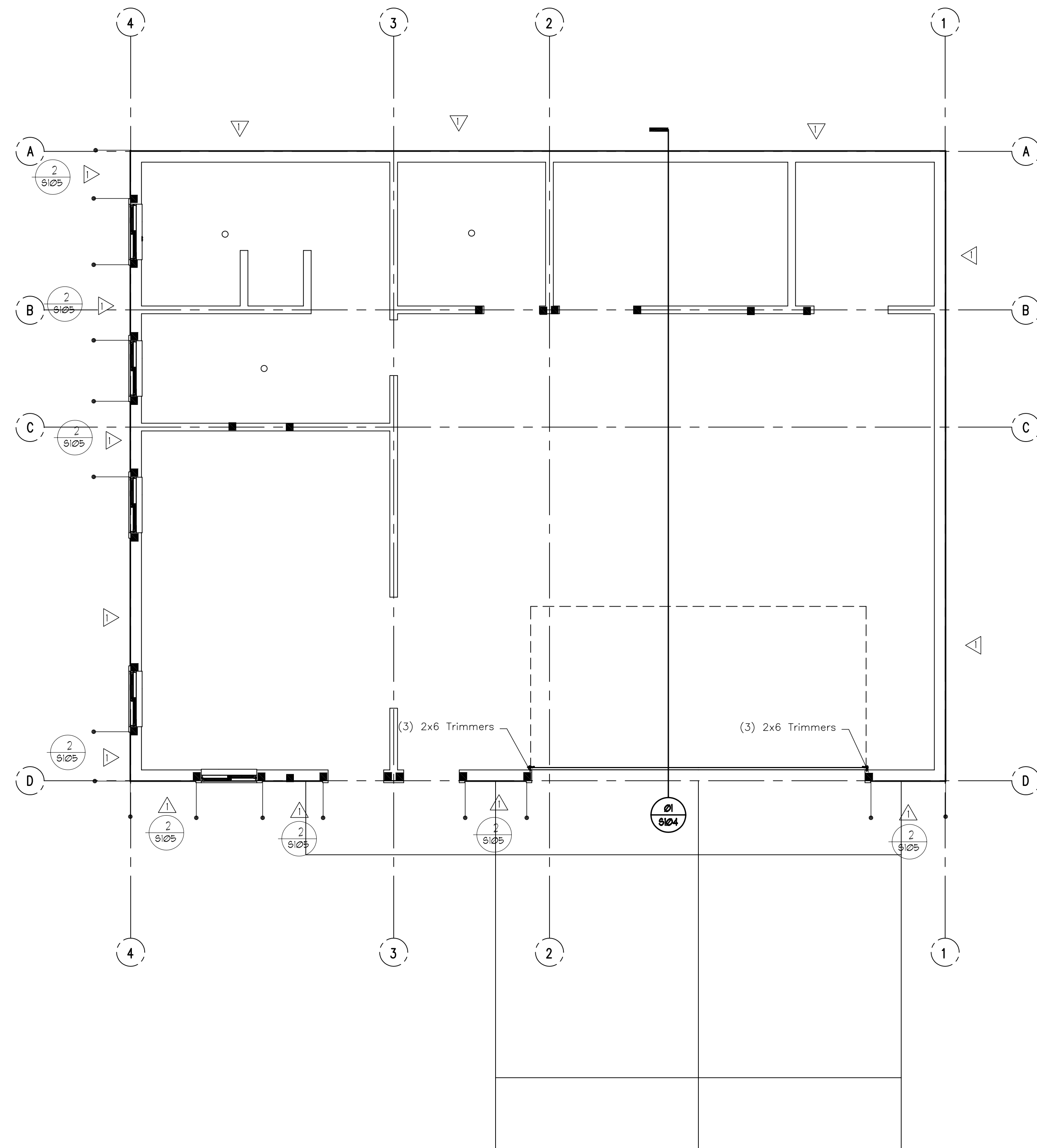
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Shear Wall Plan

S-102

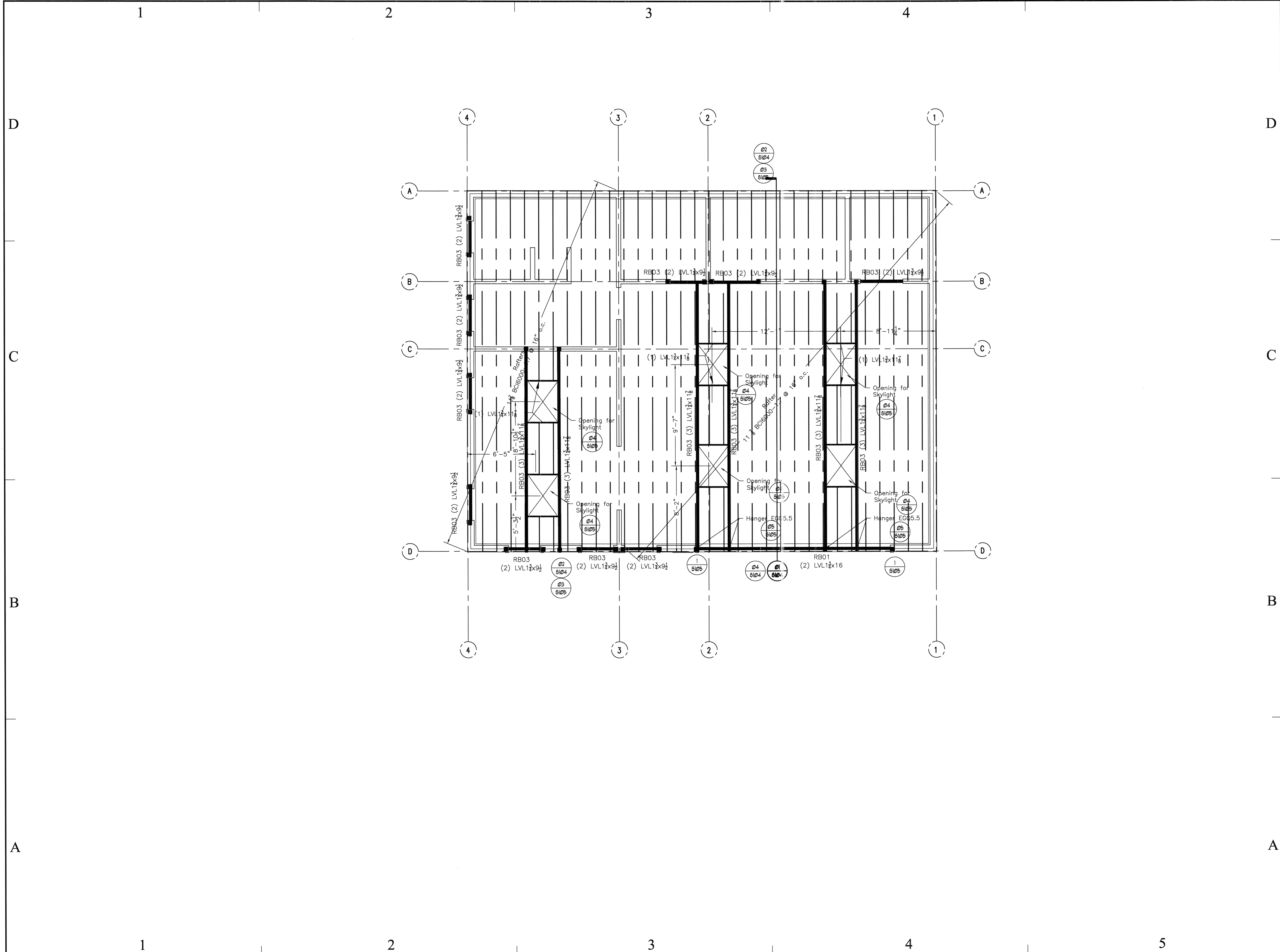
SHEET 12 OF 28



—● Simpson STHD14 Hold downs

① Shear wall one
7/16" CDX OSB over 2x6 studs with 8d nails @
3" o.c. all panel edges 12" o.c.
In the field or staple all panel w/
16ga. staples @ 3" o.c. edge 6" o.c. field

- (2) 2x6 Trimmers Min UNO



State of Utah

Department of Administrative Services

DFCM

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ARCHITECTURE

PLANNING

DESIGN

BUILDING NAME:

DEPARTMENT OF NATURAL
RESOURCES
NEW MAINTENANCE
BUILDING

SNOW CANYON
STATE PARK
IVINS, UTAH 84738-9999

PROJECT TITLE:

SNOW CANYON
STATE PARK
IVINS, UTAH 84738-9999

NEW MAINTENANCE
BUILDING

DEPARTMENT OF NATURAL
RESOURCES

MARK	DATE	DESCRIPTION
ISSUE TYPE: REVIEW DOCUMENTS		
ISSUE DATE: 11th September, 2006		
DFCM PROJECT NO: 06123510		
CAD PROJECT NO: 2006-06		
CAD DWG FILE:		
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SHEET TITLE		
Roof Framing Plan		
SHEET NUMBER		
S-103		
SHEET 13 OF 28		

C

B

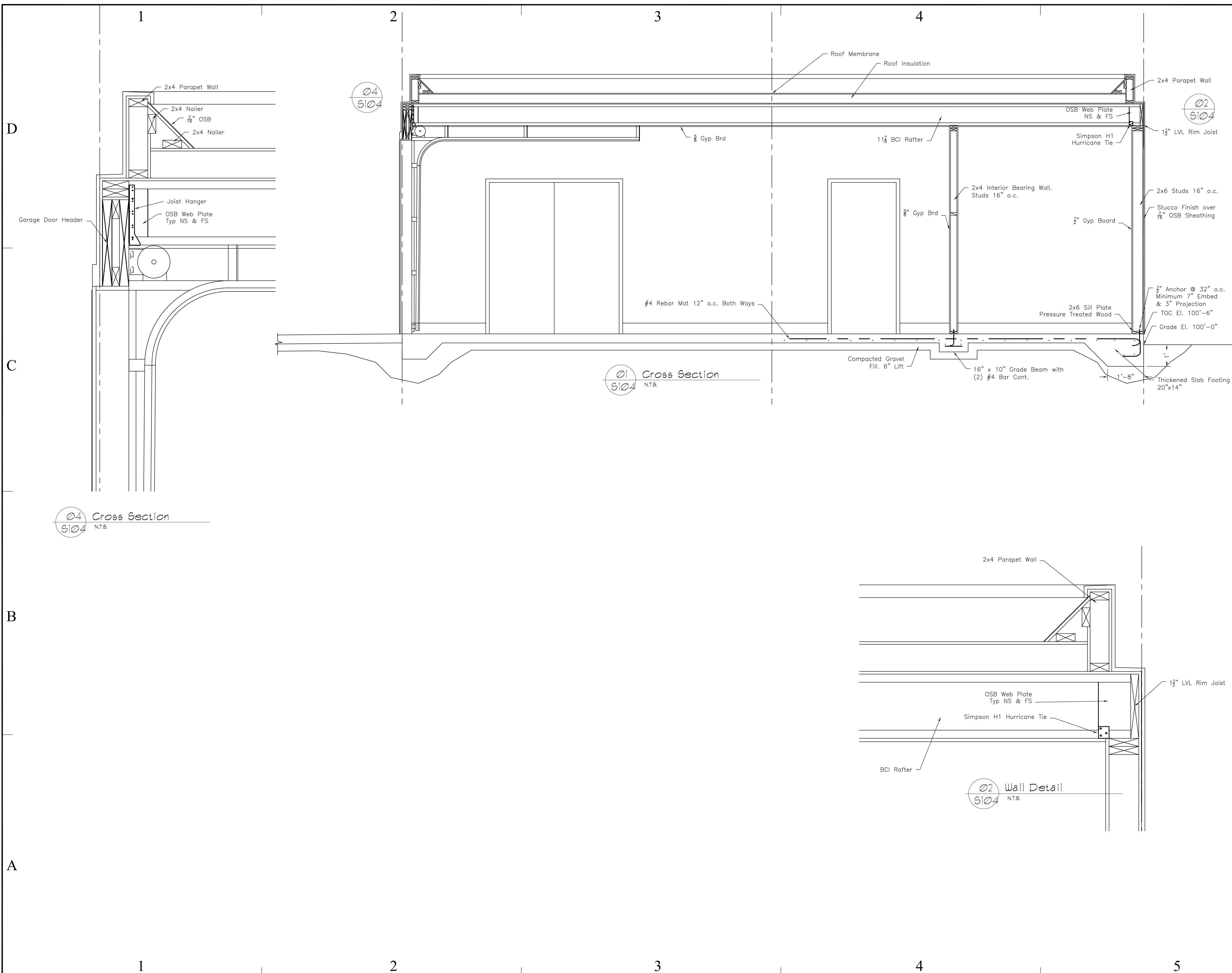
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ISSUE TYPE:		

SHEET TITLE

A

S-104

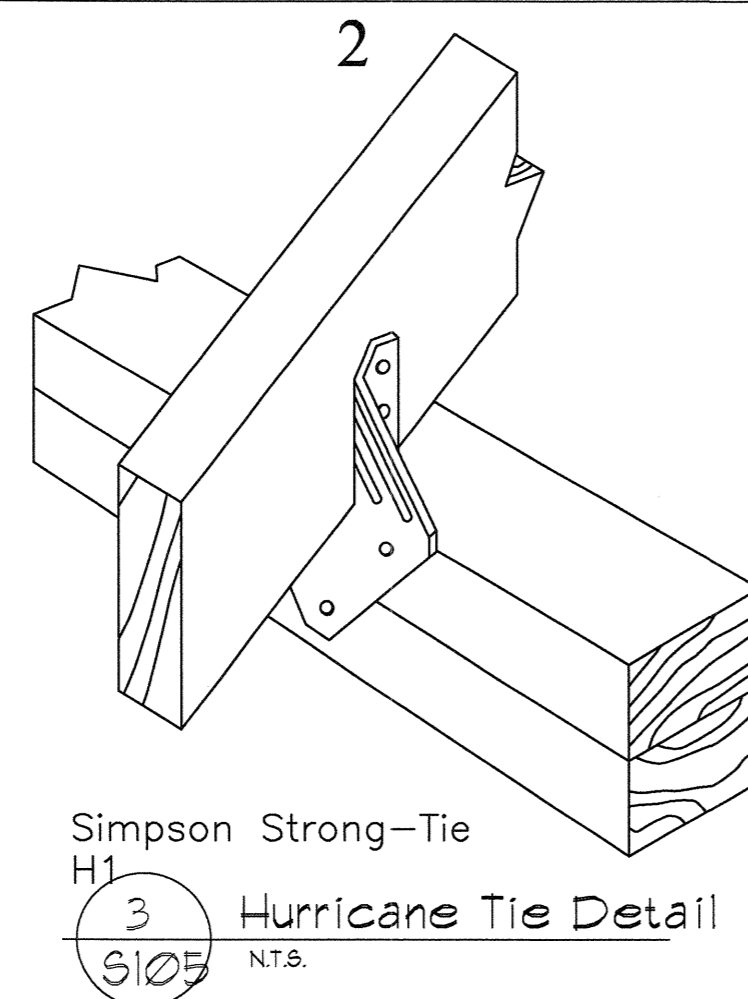
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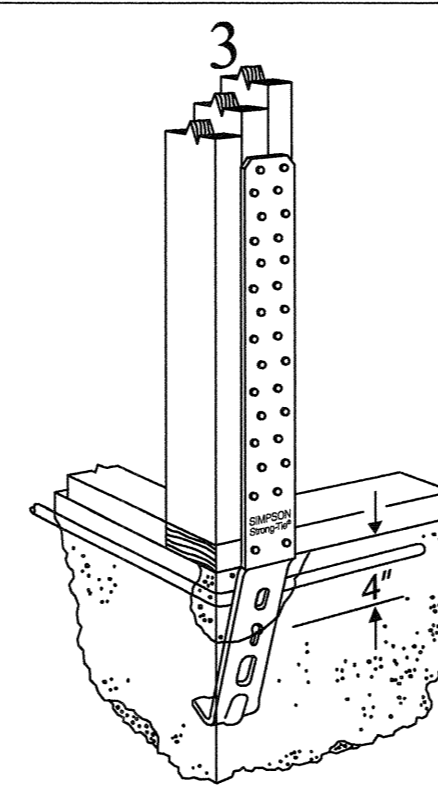
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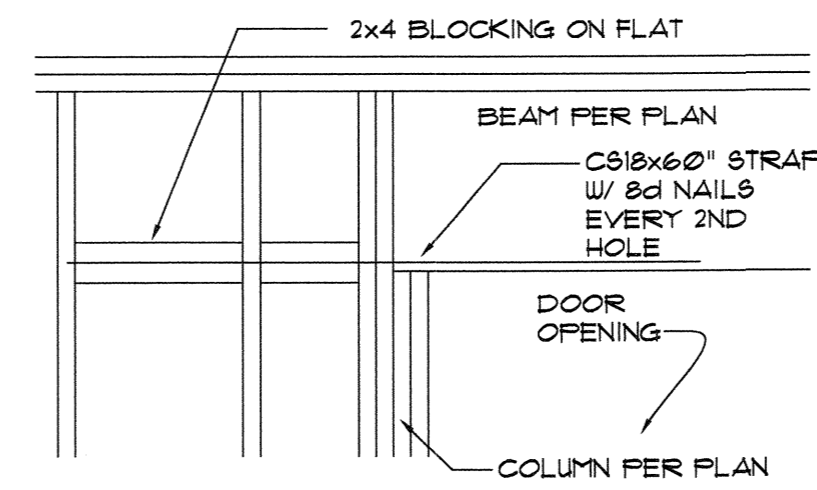
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Simpson Strong-Tie
H1
3 Hurricane Tie Detail
S105 N.T.S.

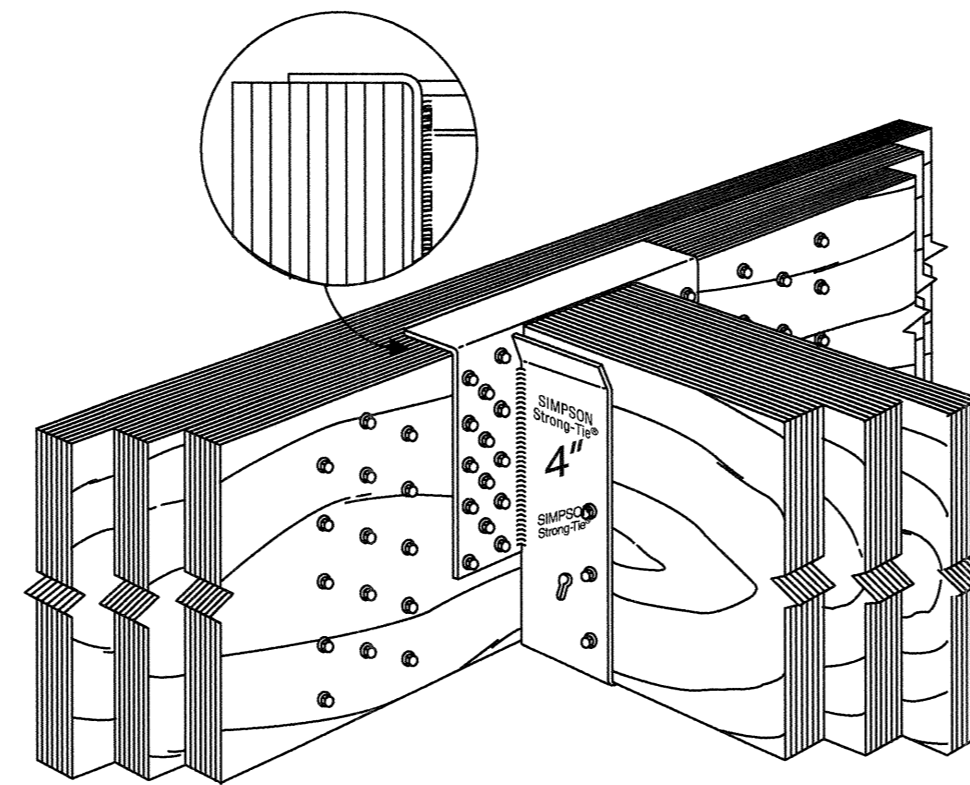


Simpson Strong-Tie
STHD Anchor Strap Installation

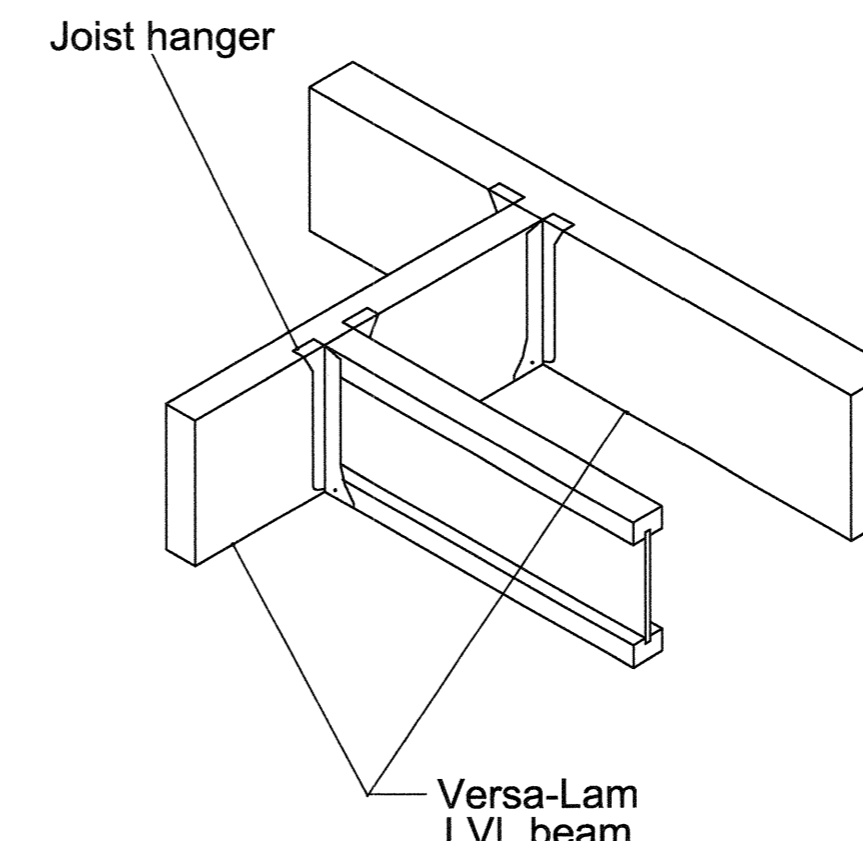
2 STHD Anchor Detail
N.T.S.



1 Garage Door Header
S105 N.T.S.

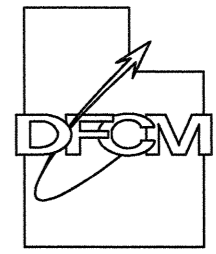


5 Beam Connection Detail
S105 N.T.S.



4
S105

State of Utah
Department of Administrative Services

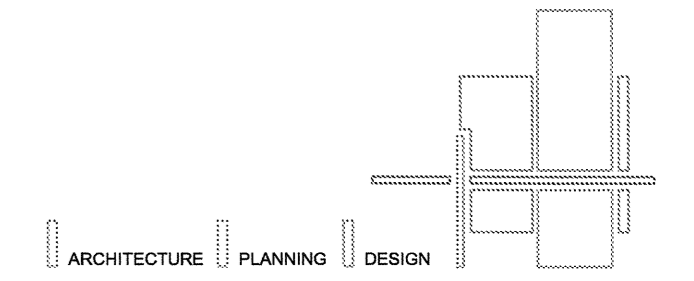


**Division of Facilities
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BUILDING NAME:

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RESOURCES
NEW MAINTENANCE
BUILDING

SNOW CANYON
STATE PARK
IVINS, UTAH 84738-9999

PROJECT TITLE:

SNOW CANYON
STATE PARK
IVINS, UTAH 84738-9999

NEW MAINTENANCE
BUILDINGDEPARTMENT OF NATURAL
RESOURCES

MARK	DATE	DESCRIPTION
ISSUE TYPE: REVIEW DOCUMENTS		

ISSUE DATE: 11th September, 2006

DFCM PROJECT NO: 06123510

CAD PROJECT NO: 2006-06

CAD DWG FILE:

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SHEET TITLE

Details

SHEET NUMBER

S-105

SHEET 15 OF 28

1

4

2

4

4

D

C

B

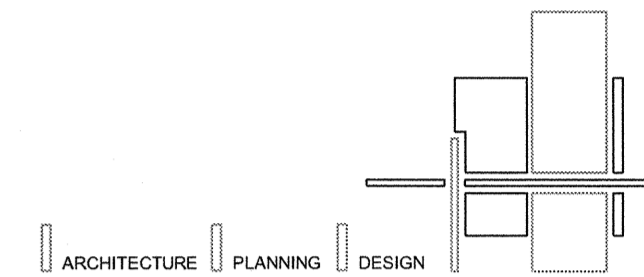
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MECHANICAL LEGEND					
SYMBOL	ABR.	DESCRIPTION	SYMBOL	ABR.	DESCRIPTION
AIR SIDE			WET SIDE / GENERAL TERMINOLOGY		
		EXISTING AIR DUCT TO BE REMOVED			PUMP
		EXISTING AIR DUCT TO REMAIN		PSD	PUMP SUCTION DIFFUSER
		NEW AIR DUCT			UNION
		RECT. TO RECT. AIR DUCT TAKE-OFF			MANUAL ACTUATOR (BALL, BUTTERFLY, NEEDLE, ETC. VALVES)
		RECT. TO RND. AIR DUCT TAKE-OFF			MANUAL ACTUATOR (GATE, GLOBE, S&D, OS&Y, ETC. VALVES)
		RND. TO RND. AIR DUCT TAKE-OFF			
		RECT. TAKE-OFF AT END OF MAIN			PNEUMATIC DIAPHRAGM ACTUATOR
		BURIED OR UNDER FLOOR DUCT			ELECTRIC MOTOR ACTUATOR
		FLEXIBLE AIR DUCT			SOLENOID ACTUATOR
		LINED DUCT			THREADED OR SWEAT VALVE CONNECTION
		VANED ELBOW			FLANGED VALVE CONNECTION
		RADIUS ELBOW			BUTTERFLY VALVE
		CONCENTRIC DUCT TRANSITION			GATE VALVE
		ECCENTRIC DUCT TRANSITION			GLOBE VALVE - STRAIGHT PATTERN
		FLEXIBLE DUCT CONNECTION			GLOBE VALVE - ANGLE PATTERN
		VOLUME DAMPER			MOTORIZED 2-WAY CONTROL VALVE
		SUPPLY AIR DIFFUSER			MOTORIZED 3-WAY CONTROL VALVE
		RETURN AIR, FRESH AIR, AND TRANSFER AIR			CHECK VALVE
		CEILING MOUNTED EXHAUST FAN OR EXHAUST GRILLE		PRV	PRESSURE REDUCING VALVE
		RETURN OR OUTSIDE AIR DUCT UP		PRV	PRES REDUCING VALVE W/ CHECK
		SUPPLY DUCT UP		CBV	CIRCUIT BALANCING VALVE
		EXHAUST AIR INTAKE UP		BV	BALL VALVE
		RETURN OR OUTSIDE AIR DUCT DOWN		A	SECTION LETTER DESIGNATION
		SUPPLY DUCT DOWN		ME-101	SECTION DRAWN ON THIS SHEET
		EXHAUST DUCT DOWN		A2	DETAIL NUMBER DESIGNATION CORRESPONDING WITH GRID LOCATION
		ROUND DUCT UP		AH 1	MECHANICAL EQUIPMENT DESIGNATION
		ROUND DUCT DOWN		1	EQUIPMENT ITEM DESIGNATION
		RAISE DUCT UP			
		LOWER DUCT DOWN			
		FLEXIBLE DUCT CONNECTION			
		PARALLEL BLADE DAMPER		D-1 CFM	REGISTER, GRILLE OR DIFFUSER DESIGNATION WITH BALANCING CFM LISTED BELOW
		OPPOSED BLADE DAMPER			
		HUMIDIFIER		R-1	GRILLE, OR LOUVER DESIGNATION WHERE BALANCING NOT REQUIRED
		AIRFLOW MEASURING STATION		1	REVISION DESIGNATOR AND NUMBER
		FILTER BANK		1	KEY NOTE DESIGNATOR AND NUMBER
		COIL		POC	POINT OF CONNECTION
	AP	ACCESS PANEL		POR	POINT OF REMOVAL
		EXISTING EQUIPMENT TO BE REMOVED			
		EXISTING EQUIPMENT TO REMAIN	AFF		ABOVE FINISHED FLOOR
		NEW EQUIPMENT	AP		ACCESS PANEL
	MVD	MOTORIZED VOLUME DAMPER		CL EL.	CENTER LINE ELEVATION
	BD	BACKDRAFT DAMPER		INV. ELEV.	INVERT ELEVATION
	FD	FIRE DAMPER		GC	GENERAL CONTRACTOR
	RD	RADIATION TYPE FIRE DAMPER		MC	MECHANICAL CONTRACTOR
	SD	SMOKE DAMPER		CC	CONTROL CONTRACTOR
	FS	FIRE & SMOKE DAMPER		EC	ELECTRICAL CONTRACTOR
	TSTAT	WALL MOUNTED THERMOSTAT		FPC	FIRE PROTECTION CONTRACTOR
	S	WALL MOUNTED TEMP. SENSOR		NIC	NOT IN CONTRACT
	HSTAT	WALL MOUNTED HUMIDISTAT		NTS	NOT TO SCALE
	FSTAT	WALL MOUNTED FIRESTAT		VCP	VITRIFIED CLAY PIPE
	SA	SUPPLY AIR		C	COMMON
	RA	RETURN AIR		NC	NORMALLY CLOSED
	EA	EXHAUST AIR		NO	NORMALLY OPEN
	OA	OUTSIDE AIR		FA	FRESH AIR
	MA	MIXED AIR		RF	RELIEF AIR

MECHANICAL GENERAL NOTES:

- GM-1 MECHANICAL INFORMATION IS NOT LIMITED TO THE MECHANICAL DRAWINGS. CONTRACTOR SHALL BE RESPONSIBLE FOR INFORMATION ON ALL OTHER CONSTRUCTION DOCUMENTS INCLUDING DRAWINGS BY OTHER DISCIPLINES AND SPECIFICATIONS.
- GM-2 A - EACH DRAWING SHEET AND THE SPECIFICATIONS HAVE BEEN PREPARED TO SUPPLEMENT EACH OTHER AND THEY SHALL BE INTERPRETED AS AN INTEGRAL UNIT WITH ITEMS SHOWN AND NOTED ON ONE AND NOT THE OTHER BEING FURNISHED AND INSTALLED AS THOUGH SHOWN AND CALLED OUT IN ALL PLACES.
- B - THE CONTRACTOR WILL BE HELD RESPONSIBLE FOR THE INSTALLATION OF THE SYSTEMS ACCORDING TO THE TRUE INTENT AND MEANING OF THE CONTRACT DOCUMENTS.
- C - THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT WITH PROPER SERVICE ACCESS AND CLEARANCES ACCORDING TO MANUFACTURERS RECOMMENDATIONS. THE CONTRACTOR SHALL REVIEW SUPPLIERS BID PACKAGES FOR COMPLETENESS AND COMPLIANCE TO THE SPECIFICATIONS, SCHEDULES, AND DESIGN INTENT (ALL EQUIPMENT AND METHODS). THE CONTRACTOR SHALL REMOVE AND REINSTALL CORRECTLY AT HIS OWN EXPENSE ANY EQUIPMENT NOT IN COMPLIANCE.
- D - THE CONTRACTOR SHALL CONSULT MANUFACTURERS INSTALLATION INSTRUCTIONS FOR SIZES, METHODS, ACCESSORIES, AND CLEARANCES IN SPACE AVAILABLE PRIOR TO BIDDING PROJECT.
- E - ANYTHING NOT CLEAR OR IN CONFLICT WILL BE EXPLAINED BY MAKING APPLICATION TO THE ENGINEER IN WRITING.
- GM-3 ANY AND ALL ALTERATIONS TO THE SYSTEM SHOWN SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR. ARCHITECT SHALL BE NOTIFIED IN WRITING PRIOR TO CHANGES.
- GM-4 CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND LOCATIONS.
- GM-5 THE WORKING DRAWINGS ARE DIAGRAMMATIC. THEY DO NOT SHOW EVERY OFFSET, BEND, OR ELBOW NECESSARY FOR THE COMPLETE INSTALLATION IN THE SPACE PROVIDED. ALL LOCATIONS FOR MECHANICAL EQUIPMENT SHALL BE FIELD VERIFIED AND COORDINATED WITH ALL DRAWINGS. THE CONTRACTOR SHALL PROVIDE OR COORDINATE WITH THE GENERAL CONTRACTOR PROVISIONS FOR BLOCK CUTS OR CORE DRILLS THROUGH STRUCTURE.
- GM-6 THE INSTRUCTION TO "PROVIDE" ALSO INCLUDES INSTALLATION.
- GM-7 MECHANICAL CONTRACTOR SHALL PROVIDE AND INSTALL SMOKE AND FIRE DAMPERS AS REQUIRED BY LOCAL CODES AND AUTHORITIES.
- GM-8 SHEET METAL DUCT SIZES SHOWN ON DRAWINGS ARE FREE AREA DIMENSIONS.
- GM-9 PROVIDE AND INSTALL BALANCING DAMPERS IN ALL SUPPLY AND EXHAUST AIR BRANCH DUCTS. BALANCE TO CFM SHOWN ON PLAN.
- GM-10 SEE ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION OF DIFFUSERS AND GRILLES.
- GM-11 PROVIDE TURNING VANES IN ALL ELBOWS OF RECTANGULAR DUCT.
- GM-12 THE CONTRACTOR SHALL ASSUME ALL RESPONSIBILITY IN HANDLING AND DISPOSING OF REFRIGERANTS, OILS, ETC. ALL SUCH MATERIALS SHALL BE HANDLED, DISPOSED, AND USED ON ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL LAWS.
- GM-13 THE MECHANICAL CONTRACTOR SHALL VERIFY MOTOR VOLTAGES WITH THE ELECTRICAL DRAWING BEFORE ORDERING MOTORIZED EQUIPMENT AND CONTROLS.
- GM-14 C.F.M. LISTED IS ACTUAL AIR.
- GM-15 SUPPLIERS SHALL REVIEW ALL DRAWINGS AND THE SPECIFICATIONS PRIOR TO SUBMITTING PRICES TO THE CONTRACTOR. ALL QUESTIONS AND DISCREPANCIES SHALL BE BROUGHT TO THE ENGINEERS ATTENTION PRIOR TO BIDDING.
- GM-16 CONTRACTOR SHALL THOROUGHLY REVIEW AND SIGN SUBMITTALS FOR COMPLETENESS AND COMPLIANCE TO THE SPECIFICATIONS PRIOR TO ENGINEERS REVIEW. SUPPLIERS SHALL HIGHLIGHT OR MARK ALL INFORMATION REQUIRED TO SHOW COMPLIANCE TO THE SPECIFICATIONS. ALL REQUESTED EXCEPTIONS TO THE SPECIFICATIONS, OR SCHEDULES SHALL BE CLEARLY NOTED AND EXPLAINED. SUBMITTAL REVIEW AND ACCEPTANCE IS FOR DESIGN CONCEPT ONLY, AND DOES NOT AT ANY TIME RELIEVE THE CONTRACTOR OF RESPONSIBILITY TO MEET SPECIFICATIONS, CAPACITIES, OR DESIGN INTENT.
- GM-17 THE MECHANICAL INSTALLATION SHALL CONFORM TO THE 2003 EDITION OF THE IMC WITH UTAH ANNOTATIONS AND LOCAL AUTHORITY REQUIREMENTS.
- GM-18 ALL DUCTWORK SHALL BE GALVANIZED STEEL FABRICATED TO SMACNA STANDARDS FOR THE VELOCITY, PRESSURE, AND GEOMETRY INVOLVED. DUCT JOINTS SHALL BE SEALED USING HARD CAST TAPE. TYPE AND APPLICATION TECHNIQUES SHALL BE AS RECOMMENDED BY THE MANUFACTURER FOR THE INTENDED USE AND LOCATION.

- GM-19 DUCT LINER SHALL BE ATTACHED TO INSIDE OF DUCTWORK WITH ADHESIVE COATING BETWEEN THE DUCT AND LINER AND FURTHER SECURED BY PINS MECHANICALLY FASTENED TO DUCT. PINS ADHESIVELY ATTACHED ARE NOT ACCEPTABLE ALL EDGES OF LINER SHALL BE THOROUGHLY COATED WITH ADHESIVE AND TIGHTLY BUTTED. LINER SHALL BE FIBERGLASS WITH BLACK CLOTH FINISH ON SMACNA STANDARDS AND ALL REQUIREMENTS OF THE MANUFACTURER. LINER AND ADHESIVE SHALL MEET ALL REQUIREMENTS OF FEDERAL, STATE, AND LOCAL CODES.
- GM-20 INSTALLATION AND SELECTION OF MATERIALS AND EQUIPMENT SHALL ADHERE TO THE REQUIREMENTS OF 2003 IECC AND ENFORCED BY THE LAWS OF THE STATE OF UTAH AND THE LOCAL AUTHORITY HAVING JURISDICTION.
- GM-21 DUCTWORK ROUTED OUTSIDE OF BUILDING SHALL BE INSULATED AS REQUIRED BY 2003 IECC. INSULATION SHALL BE MADE UP OF DUCT LINER, EXTERNAL DUCT WRAP WITH A WEATHERPROOF COVER OR A COMBINATION THERE OF AS NEEDED TO MEET REQUIREMENTS. INSULATION SYSTEM SHALL MEET UBC, IMC, ASTM, UL, AND NFPA STANDARDS AND REQUIREMENTS.



BUILDING NAME:

DEPARTMENT OF NATURAL
RESOURCES
NEW MAINTENANCE
BUILDING

SNOW CANYON
STATE PARK
IVINS, UTAH 84738-9999

PROJECT TITLE:

SNOW CANYON
STATE PARK
IVINS, UTAH 84738-9999

NEW MAINTENANCE
BUILDING

DEPARTMENT OF NATURAL
RESOURCES

MARK	DATE	DESCRIPTION
		ISSUE TYPE: CONSTRUCTION DOCUMENTS

ISSUE DATE: 18th OCTOBER, 2006

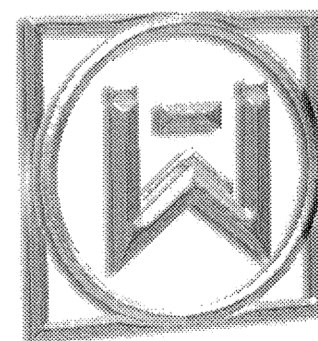
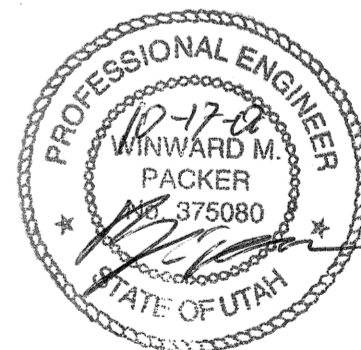
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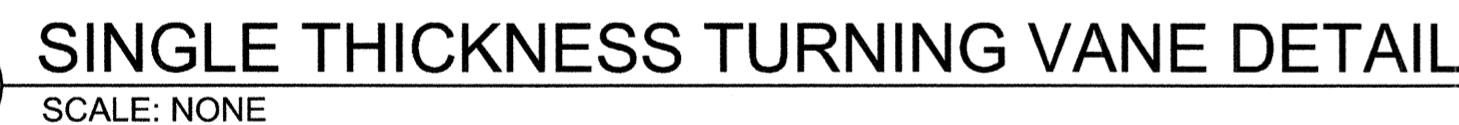
MECHANICAL
GENERAL NOTES
AND LEGEND

SHEET NUMBER

M001



WHW
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1354 East 3300 South Suite 200
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(801) 466-4021, FAX 466-8536
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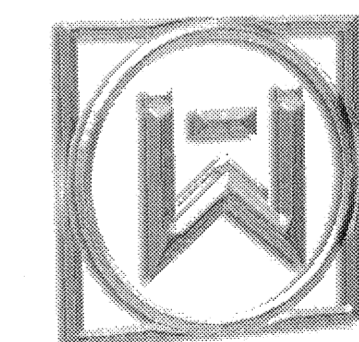


1. TRANSVERSE REINFORCING SIZE IS DETERMINED BY DIMENSION OF SIDE TO WHICH ANGLE IS APPLIED.



LOW PRESSURE ROUND DUCT CONSTRUCTION DETAIL

SCALE: NONE



1	2	3	4	5
D				
C				
B				
A				
1	2	3	4	5

AIR COOLED CONDENSING UNIT SCHEDULE							
SYMBOL	MIN SIZE (TONS)	COMPRESSOR MOTOR			MCA	MOCP	MNUF. & MODEL #
		No.	RLA (EACH)	LRA (EACH)			
<div>CU1</div>	4	1	18.6	93	25	40	TRANE 2TTB3048A
1. REFRIGERANT R-22. 2. CONDENSING UNIT SYMBOLS CORRESPOND WITH FURNACE SYMBOLS, EXCEPT AS NOTED. 3. SEE SPECIFICATIONS FOR APPROVED MANUFACTURERS. 4. ELECTRIC SERVICE: 240/1Ø/60HZ							

DIFFUSER SCHEDULE							
SYMBOL	TYPE	MAX CFM	FACE SIZE	NCK SIZE	CEILING TYPE	BLOW	SCHEDULE NOTES
<div>D-1CFM</div>	SUPPLY	275	8X8	8"Ø	N/A	1-WAY	1,2,3
<div>D-2CFM</div>	SUPPLY	420	10X10	10"Ø	N/A	1-WAY	1,2,3
1. PROVIDE LAY-IN CEILING AND BORDER / MODULE AS REQUIRED. SEE ARCHITECTURAL CEILING PLANS. 2. MAXIMUM NC 25 AT CFM LISTED. 3. TRANSITION AS REQUIRED TO DUCT WORK SHOWN ON PLAN.							

REGISTER, LOUVER & GRILLE SCHEDULE							
SYMBOL	TYPE	SERVICE	MAX CFM	NOMINAL SIZE	THROAT SIZE	CEILING TYPE	SCHEDULE NOTES
<div>R-1</div>	SIDEWALL	RETURN	250	10/10	10/10	N/A	1,2,3,4
<div>R-2</div>	SIDEWALL	RETURN	375	12/12	12/12	N/A	1,2,3,4
<div>R-3</div>	SIDEWALL	RETURN	850	20/20	20/20	N/A	1,2,3,4
REGISTER, LOUVER AND DIFFUSER SCHEDULE NOTES: 1. MAXIMUM NC = 25 @ MAXIMUM CFM NOTED. 2. SHALL BE PRICE 535 OR EQUAL BY OTHER APPROVED MANUFACTURERS. 3. SEE SPECIFICATIONS FOR APPROVED MANUFACTURERS. 4. FINISH SHALL BE OFF-WHITE BAKED ENAMEL. 5. FINISH TO BE SPECIFIED BY ARCH							

EXHAUST FAN SCHEDULE										
SYMBOL	MANUFACTURER & MODEL No.	SERVES	C.F.M.	STATIC PRESSURE IN. WG.	MAX NOISE SONES	MOTOR			OPER. WT. (LBS)	COMMENTS
						V - Ø - Hz	W	RPM		
<div>EF1</div>	GREENHECK SP-B150	RESTROOM	150	.2	3.8	120-1-60	129	1050	10	INTERLOCK W/ LIGHTS
<div>EF2</div>	GREENHECK SP-C50	JANITORS ROOM	50	.2	3.8	120-1-60	46	1680	5	ALWAYS ON
<div>EF3</div>	GREENHECK SP-B150	GARAGE	150	.2	3.8	120-1-60	129	1050	10	SWITCH
<div>EF4</div>	GREENHECK SP-B150	BREAK ROOM	150	.2	3.8	120-1-60	129	1050	10	SWITCH

ELECTRIC UNIT HEATER SCHEDULE						
SYMBOL	ELECTRICAL DATA 240 V				MANUFACTURER AND MODEL NUMBER	REMARKS
	BTUH	KW	PH	HZ		
<div>EUH1</div>	10200	3	1	60	QMARK MUH03-21	1,2
1. PROVIDE WITH SURFACE MOUNTING ADAPTER. 2. UNIT SHALL HAVE BUILT IN THERMOSTAT.						

FAN COIL UNIT SCHEDULE							
SYMBOL	AUXILIARY ELECTRIC HEAT KW 240 V 1Ø	FAN (2 SPEED)				MANUF. & MODEL #	SCHEDULE NOTES
		SCFM COOLING / HEATING	O.A. CFM	ESP	MCA/MCOP		
<div>FC1</div>	15.36	1600	20%	.6	59 / 60	TRANE TWE	1
1. VOLTAGE 120V, 1Ø, 60 HZ							

State of Utah
Department of Administrative Services

DFCM

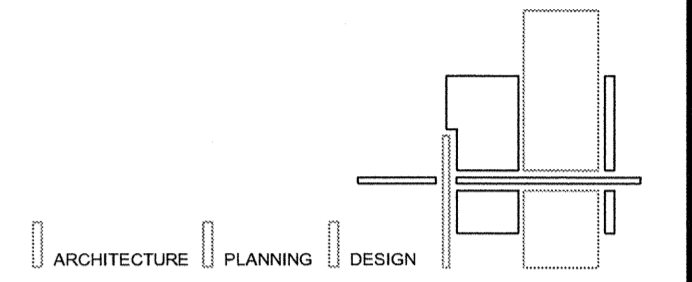
Division of Facilities
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P+A architects

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BUILDING NAME:
DEPARTMENT OF NATURAL RESOURCES
NEW MAINTENANCE BUILDING
SNOW CANYON STATE PARK
IVINS, UTAH 84738-9999

PROJECT TITLE:
SNOW CANYON STATE PARK
IVINS, UTAH 84738-9999
NEW MAINTENANCE BUILDING
DEPARTMENT OF NATURAL RESOURCES

MARK	DATE	DESCRIPTION

ISSUE DATE: 18th OCTOBER, 2006

DFCM PROJECT NO:
CAD PROJECT NO: 2006-06
CAD DWG FILE:
DRAWN BY: STAFF
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SHEET TITLE
MECHANICAL SCHEDULES AND DETAILS
SHEET NUMBER

ME601
SHEET 19 OF 28



W

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1

2

3

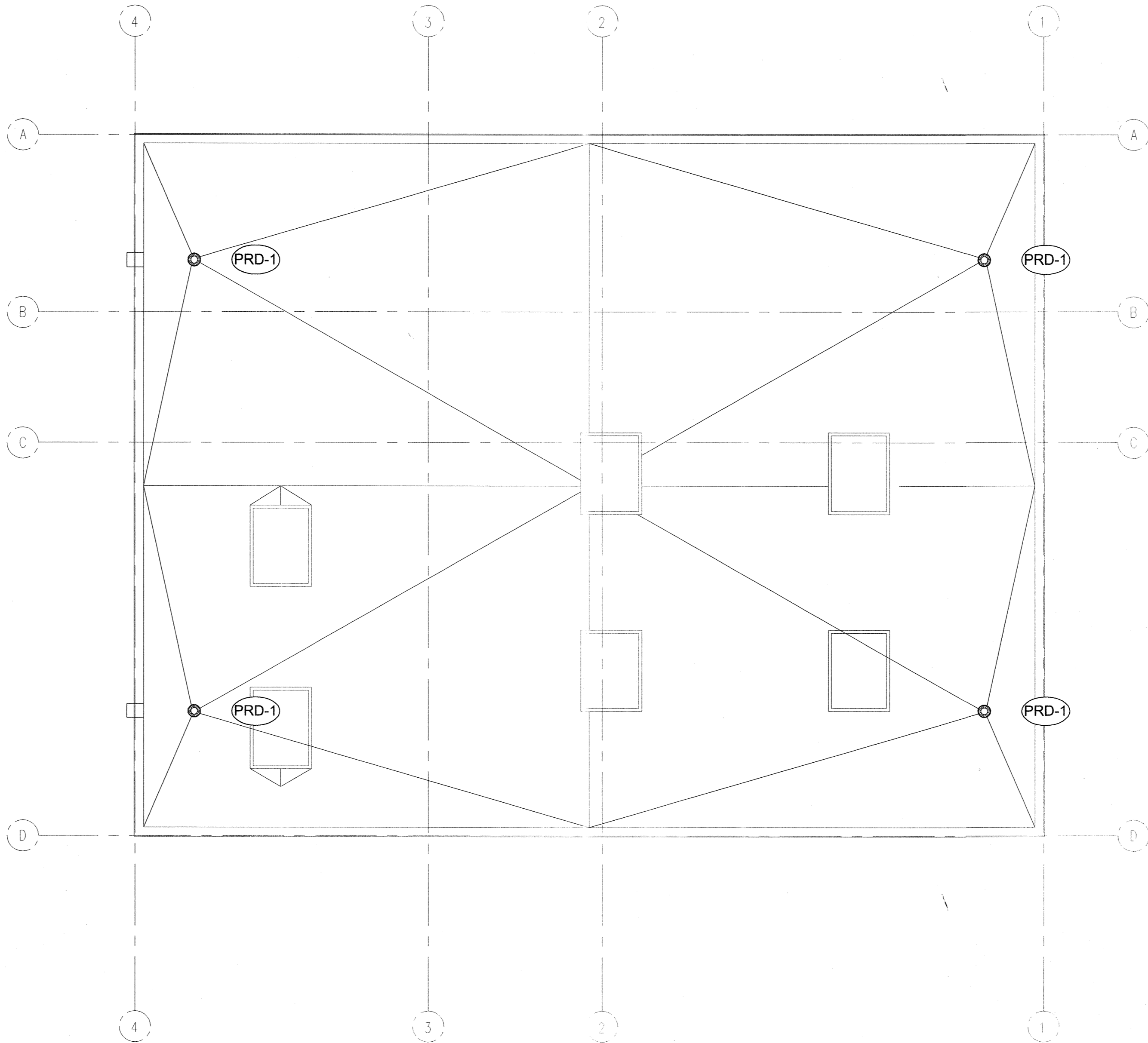
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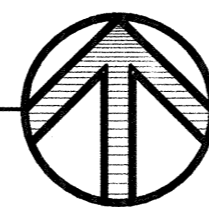
B

A



ROOF PLUMBING PLAN

SCALE: 1/4" = 1'-0"



SHEET NOTES:

- 1
- 2 COORDINATE WITH DIVISION 16 TO HEAT TRACE ALL PIPING OUTSIDE OF BUILDING ENVELOPE.
- 3 SEE ARCHITECTURAL SHEET FOR OVERFLOW SCUPPER LOCATIONS AND SIZES.
- 4

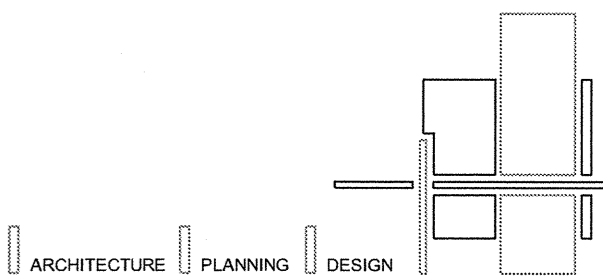
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STATE PARK
IVINS, UTAH 84738-9999

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STATE PARK
IVINS, UTAH 84738-9999

NEW MAINTENANCE
BUILDING

DEPARTMENT OF NATURAL
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MARK	DATE	DESCRIPTION

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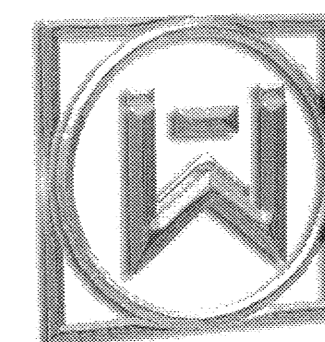
SHEET TITLE

PLUMBING PLAN

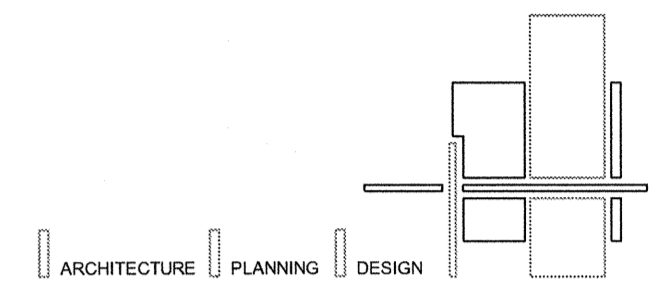
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PE102

SHEET 22 OF 28



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DEPARTMENT OF NATURAL RESOURCES
NEW MAINTENANCE BUILDING
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IVINS, UTAH 84738-9999

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MARK DATE DESCRIPTION
ISSUE TYPE: CONSTRUCTION DOCUMENTS

ISSUE DATE: 18th OCTOBER, 2006

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SHEET TITLE
PLUMBING SCHEDULES AND DETAILS

SHEET NUMBER
PE601

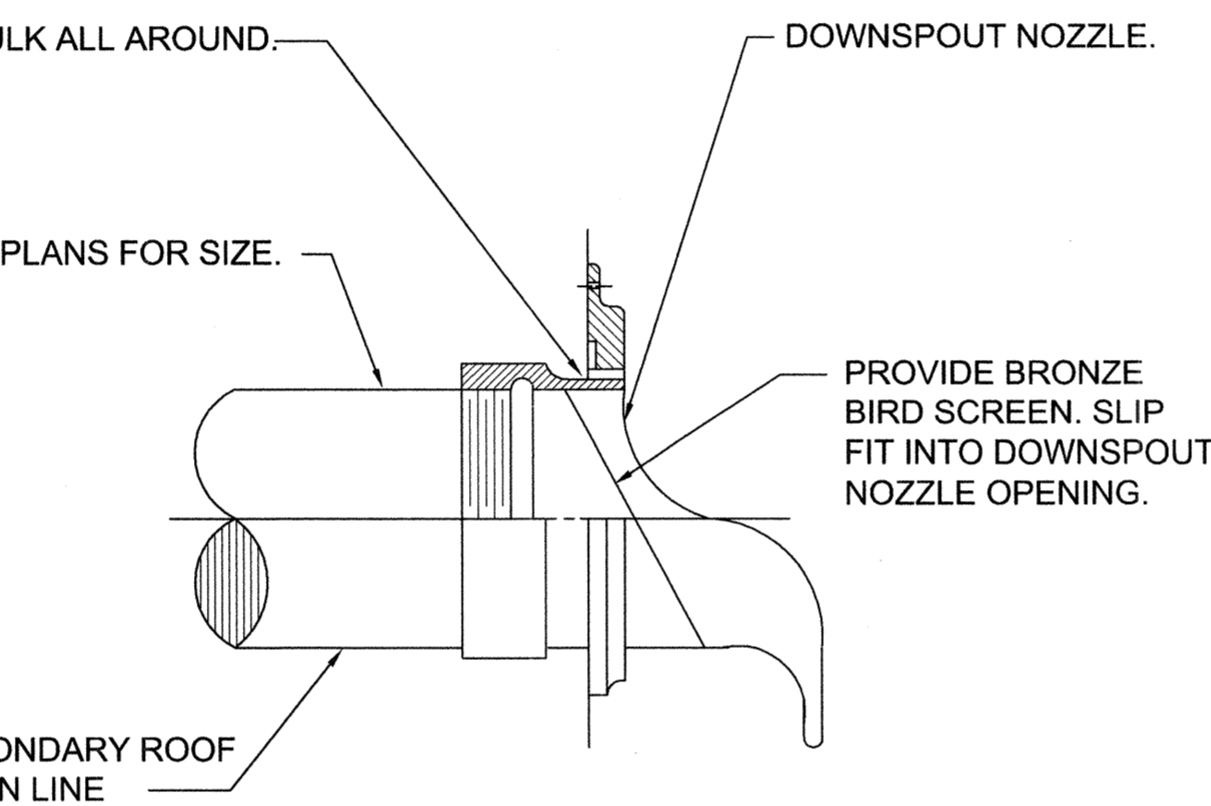
SHEET 23 OF 28

PLUMBING FIXTURE SCHEDULE

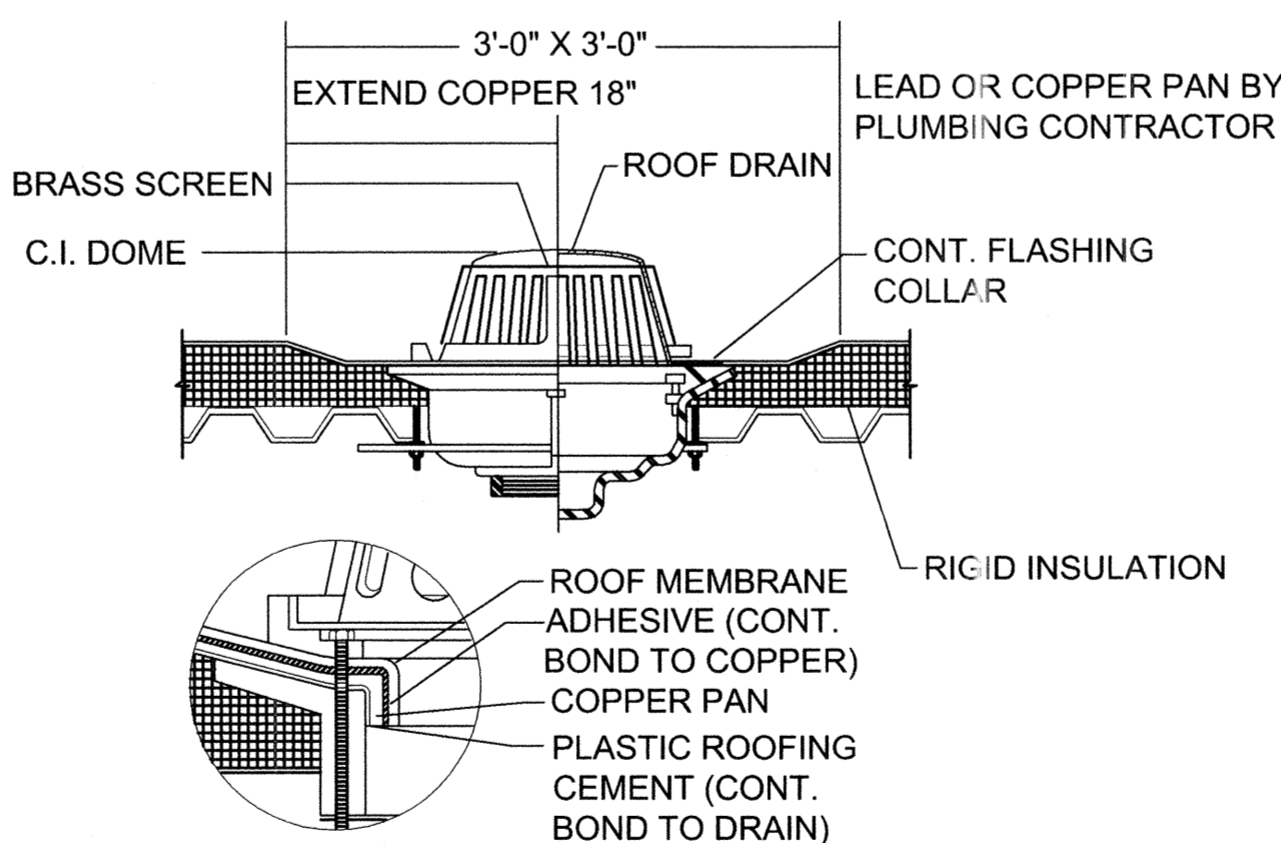
SYMBOL	FIXTURE	INDIVIDUAL LINE SIZES					REMARKS
		TRAP	WASTE	VENT	COLD WATER	HOT WATER	
(WC-1)	WATER CLOSET	3"	3"	2"	1/2"	-	KOHLER "HIGHLINE K-3544" OR EQUAL BY AMERICAN STANDARD, CRANE, OR ELJER. FLOOR MOUNTED, TANK TYPE, ADA COMPLIANT
(SH-1)	ADA SHOWER	-	-	-	1/2"	1/2"	ADA HAND HELD SPRAYER WITH MOUNTING BRACKET BY ACORN, BRADLEY, KOHLER, OR EQUAL.
(L-1)	LAVATORY	1-1/2"	1-1/2"	1-1/2"	1/2"	1/2"	KOHLER "GREENWICH K-2032" OR EQUAL BY AMERICAN STANDARD, CRANE, OR ELJER. SELF SUPPORTING WITH 2" ADA LEVERS.
(FD-1)	FLOOR DRAIN	2"	2"	1-1/2"	-	-	WITH DEEP SEAL P-TRAP AND TRAP PRIMER. WADE 1100 OR EQUAL BY ZURN, SMITH, OR JOSAM.
(MS-1)	MOP SINK	3"	3"	2"	3/4"	3/4"	28x28 FLOOR MOUNTED WITH RIM GUARD. KOHLER "WHITBY K-6710" OR EQUAL BY AMERICAN STANDARD, ELJER, OR CRANE.
(WH-1)	WATER HEATER	-	-	-	3/4"	3/4"	30 GALLON, 3 KW, 240V/1Ø, 13 GPH RECOVERY @ 90° TEMPERATURE RISE. AO SMITH MODEL DEL 30 OR EQUAL BY STATE, OR RHEEM.
(WB-1)	WASHER BOX	-	2"	1-1/2"	-	-	
(BS-1)	BREAK SINK	1-1/2"	1-1/2"	1-1/2"	1/2"	1/2"	18 GA. STAINLESS, SELF RIMMING, SINGLE COMPARTMENT. ELKAY LR-1918 OR EQUAL BY SMITH, JOSAM, OR ZURN.
(PRD-1)	PRIMARY ROOF DRAIN	-	3"	-	-	-	WADE 3000 OR EQUAL BY SMITH, JOSAM, OR ZURN.
(DN-1)	DOWN SPOUT NOZZLE	-	3"	-	-	-	ZURN Z-199 OR EQUAL BY WADE, SMITH, OR JOSAM. LOCATE AT 24" ABOVE GRADE
(H-1)	HYDRANT	-	-	-	3/4"	-	FREEZE PROOF. WADE W-8600 OR EQUAL BY JOSAM, SMITH, OR ZURN.

C1 FLOOR DRAIN DETAIL
SCALE: NONE

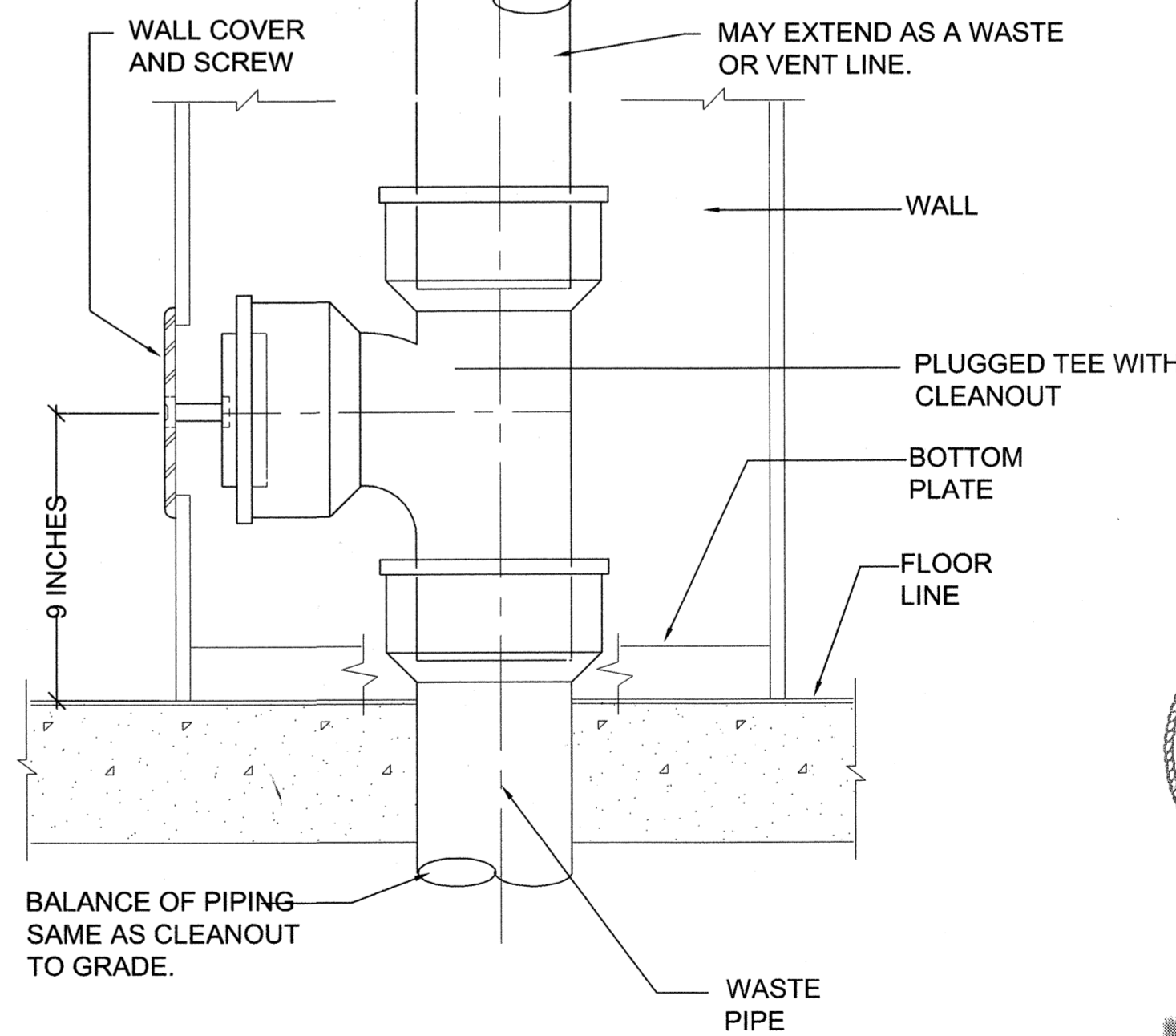
C2 CLEAN-OUT DETAILS
SCALE: NONE



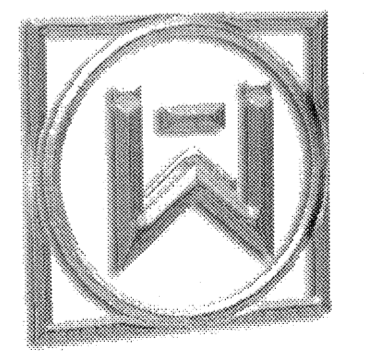
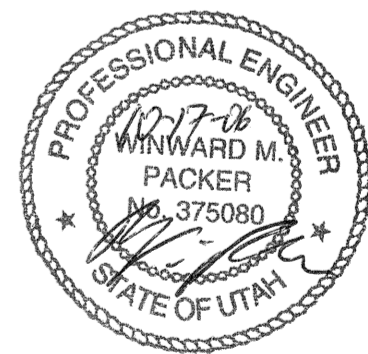
B2 DOWNSPOUT NOZZLE DETAIL
SCALE: NONE



A3 ROOF DRAIN DETAIL
SCALE: NONE



A4 WALL CLEAN-OUT DETAIL
SCALE: NONE



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PANEL BOARD SCHEDULE

PANEL	A	TYPE	NQ00	120/240 VOLTS	1 PH	3 W
MOUNTING		DIMENSIONS		LOCATION		<input checked="" type="checkbox"/> LUGS <input type="checkbox"/> BREAKER <input type="checkbox"/> SUBFEED LUGS <input type="checkbox"/> ISO GROUND <input type="checkbox"/> 200% NEUTRAL
FLUSH		20 W				
<input checked="" type="checkbox"/> SURFACE		5.8 D (in.)		AMP 150 100% RATED		
		H				

BRANCH BREAKERS														
ITEM	AMPS	POLE	WIRE SIZE	CIR. NO.	L. PHASE LOAD		R. PHASE LOAD		CIR. NO.	AMPS	POLE	WIRE SIZE	ITEM	
					A	B	A	B						
LIGHTING	20	1	12	1	1490		900		2	20	1	12	SHOP RECEPTACLES	
SPARE	20	1	3	1				900	4	20	1	12	SHOP RECEPTACLES	
SPARE	20	1	5	1			540		6	20	1	12	WASH ROOM RECEPTACLES	
SPARE	20	1	7	1				800	8	20	1	12	WASHING MACHINE	
SPARE	20	1	9	1			1000		10	30	2	10	DRYER	
SPARE	20	1	11	1				1000	12	20	1	12	—	
SPARE	20	1	13	1			900		14	20	1	12	WORKROOM PLUGMOLD	
SPARE	20	1	15	1			900		16	20	1	12	WORKROOM PLUGMOLD	
SPACE ONLY			17	1			180		18	20	1	12	WORKROOM PLUGMOLD	
SPACE ONLY			19	1			720		20	20	1	12	WORKROOM PLUGMOLD	
SPACE ONLY			21	1			180		22	20	1	12	TELEPHONE BOARD	
SPACE ONLY			23	1			300		24	20	1	12	EF-2,3,4 EXHAUST FANS	
SPACE ONLY			25	1			1000		26	20	1	12	OVERHEAD DOOR	
SPACE ONLY			27	1			1785		28	20	2	12	UH-1 UNIT HEATER	
SPACE ONLY			29	1			1785		30	—	—	—	—	
SPACE ONLY			31	1			1500		32	20	2	12	WH-1 ELEC. WATER HEATER	
SPACE ONLY			33	1			1500		34	—	—	—	—	
CU-1 CONDENSING UNIT	40	2	10	35		2550			36				SPACE ONLY	
—	—	—	—	37		2550			38				SPACE ONLY	
FC-1 FAN COIL UNIT	90	1	4	39		6015			40				SPACE ONLY	
—	—	—	—	41		6015			42				SPACE ONLY	
					6015									
					10055	8565		8685	7885					
					18740	16450		TOTAL					CONNECTED LOAD TOTAL	
					156.17	137.08		AMPS/PHASE					35190 W	

EQUIP RATING
 10,000 AMPS RMS SYM.

EQUIPMENT SCHEDULE																		
UNIT #	FUNCTION	LOAD	VOLT	PHASE	FULL LOAD	AMPS	CONDUIT	SIZE	NO. SETS	WIRES			COPD		REF. NOTES			REMARKS
										NO.	SIZE	TYPE	AMPS	STARTER	DISCONNECT	OTHER		
CU-1	CONDENSING UNIT	25 MCA	240	1	21.25	3/4"	1	2	8	CB	40	2A						
EF-1	EXHAUST FAN	129 W	120	1	1.26	3/4"	1	2	12	CB	20	11A						
EF-2	EXHAUST FAN	46 W	120	1	0.45	3/4"	1	2	12	CB	20	4A						
EF-3	EXHAUST FAN	129 W	120	1	1.26	3/4"	1	2	12	CB	20	4A						
EF-4	EXHAUST FAN	129 W	120	1	1.26	3/4"	1	2	12	CB	20	4A						
FC-1	FAN COIL UNIT	59 MCA	240	1	50.15	1"	1	2	4	CB	90	2A						
UH-1	UNIT HEATER	3 KW	240	1	14.71	3/4"	1	2	12	CB	30	4A						
WH-1	ELEC. WATER HEATER	12.5 FLA	240	1	12.5	3/4"	1	2	12	CB	20	4A						

NOTES:

1. NON-FUSED DISCONNECT SWITCH
2. FUSED DISCONNECT SWITCH
3. BREAKER IN ENCLOSURE
4. MANUAL STARTER W/THERMAL OVERLOAD
5. MAGNETIC STARTER
6. MAGNETIC STARTER/NON-FUSED DISCONNECT COMBINATION
7. MAGNETIC STARTER/FUSED DISCONNECT COMBINATION
8. MAGNETIC STARTER/BREAKER COMBINATION
9. VARIABLE FREQUENCY DRIVE
10. REDUCED VOLTAGE STARTER
11. DIRECT CONNECTION
12. RECEPTACLE/SPECIAL PURPOSE OUTLET/ETC.
13. TWO-SPEED STARTER, COORDINATE W/MOTOR TYPE

- A. FURNISHED, INSTALLED, AND CONNECTED UNDER DIVISION 16
- B. FURNISHED AND INSTALLED UNDER ANOTHER DIVISION REQUIRING CONNECTION UNDER DIVISION 16
- C. FURNISHED UNDER ANOTHER DIVISION BUT INSTALLED AND CONNECTED UNDER DIVISION 16.
- D. FURNISHED, INSTALLED AND CONNECTED UNDER ANOTHER DIVISION.

OVER CURRENT PROTECTIVE DEVICES

CB = CIRCUIT BREAKER - THERMAL MAGNETIC

FN = FUSE - NON INDUCTIVE LOAD

FI = FUSE - INDUCTIVE LOAD

MO = MAGNETIC ONLY CIRCUIT BREAKER

ELECTRICAL SYMBOL SCHEDULE			
1. SEE FIXTURE SCHEDULE FOR TYPE, MOUNTING AND WATTAGE. 2. HEIGHT MEASURED TO TOP LINE OF THE BOX FROM THE FINISH FLOOR. 3. REFER TO DRAWINGS FOR DIRECTIONAL ARROWS. 4. SUBSCRIPT KEYS SWITCH TO FIXTURES CONTROLLED. 5. NEMA TYPE AND NON-FUSED UNLESS NOTED "F" (FUSED), USE "HD" 480 V. 6. HEIGHT TO BE THE LOWER OF EITHER 80" A.F.F. OR 6" BELOW CEILING. 7. PROVIDE H.O.A. AND S.S. PUSHBUTTONS AS REQUIRED. 8. DOUBLE ARROWS DENOTE A DOUBLE FACE UNIT. 9. COORDINATE WITH MILLWORK SHOP DRAWINGS AND ELEVATIONS FOR HEIGHT. 10. SUBSCRIPT NOTATES NEMA CONFIGURATION. 11. HEIGHT MEASURED TO BOTTOM OF THE BOX FROM FINISH FLOOR.			
STANDARD MOUNTING HEIGHT UNLESS OTHERWISE NOTED ON PLANS			
SYMBOL	DESCRIPTION	MOUNTING HEIGHT	NOTES
	ONE CIRCUIT, TWO WIRE HOME RUN TO PANEL		
	2 CIRCUIT, 3 WIRE, COMMON NEUTRAL HOME RUN		
	3 CIRCUIT, 4 WIRE, COMMON NEUTRAL HOME RUN		
	CONDUIT RUN CONCEALED IN WALL OR CEILING		
	CONDUIT RUN CONCEALED IN FLOOR OR GROUND		
	CONDUIT UP		
	CONDUIT DOWN		
	CONDUIT STUB LOCATION	CAP CONDUIT	
	CEILING LIGHT FIXTURE	CEILING	1.
	WALL LIGHT FIXTURE	AS NOTED	1.
	RECESSED DOWNLIGHT FIXTURE	CEILING	1.
	FLUORESCENT LIGHT FIXTURE	AS NOTED	1
	FLUORESCENT EGRESS LIGHT FIXTURE	AS NOTED	UNSWITCHED
	CEILING MOUNTED EXIT LIGHT	CEILING	1,3,8.
	WALL MOUNTED EXIT LIGHT	AS NOTED	1,3,8.
	SINGLE POLE SWITCH	+4'-0"	2.
	SINGLE POLE SWITCH	+4'-0"	4. 2.
	THREE-WAY SWITCH	+4'-0"	2.
	FOUR-WAY SWITCH	+4'-0"	2.
	DUPLEX RECEPTACLE	+16" OR AS NOTED	9. 11.
	DUPLEX RECEPTACLE		9.
	ELECTRIC WATER COOLER RECEPTACLE		SEE DIAGRAM
	WEATHERPROOF RECEPTACLE	+24" OR AS NOTED	2. 9.
	GROUND FAULT INTERRUPTER DUPLEX RECEPTACLE	+16" OR AS NOTED	9. 11.
	FOURPLEX RECEPTACLE	+16" OR AS NOTED	9. 11.
	SPECIAL PURPOSE OUTLET	+16" OR AS NOTED	10. WITH CAP. 11.
	TELEVISION OUTLET	+16" OR AS NOTED	11.
	DATA OUTLET	+16" OR AS NOTED	9. 11.
	TELEPHONE OUTLET	+16" OR AS NOTED	9. 11.
	TELEPHONE/DATA OUTLET	+16" OR AS NOTED	9. 11.
	JUNCTION BOX ("F" IN FLOOR)	AS NOTED	
	MOTOR OUTLET	TO SUIT EQUIP.	
	FUSED DISCONNECT SWITCH	+5'-0"	5.
	MANUAL STARTER THERMAL OVERLOAD SWITCH WITH PILOT LIGHT	+4'-0"	2.
	PANEL BOARD	TOP AT +6'-0"	
	MAIN DISTRIBUTION PANEL		
	TELEPHONE TERMINAL BOARD		
	ARCHITECTURAL ROOM NUMBER		
	LIGHT FIXTURE (LETTER DESIGNATES TYPE)		
	EQUIPMENT NUMBER		

FIXTURE SCHEDULE				
TYPE	DESCRIPTION	CATALOG NUMBER	VOLTS	LAMPS
A	8" INDUSTRIAL FLUORESCENT WITH 5K UPLIGHT REFLECTOR	COLUMBIA: CSR8-232-U--EBBLHUNV	120	(4) F032/8335
B	SURFACE MOUNTED WRAPAROUND WITH ACRYLIC PRISMATIC LENS	COLUMBIA: WC4-232-E1BLHUNV	120	(2) F032/8335
C	DECORATIVE SOUTHWEST EXTERIOR WALL SCENE	M120-290-10-C140-SILVER MICA LINER WWW.AWARDLIGHTING.COM	120	(2) 60W A19
X1	DESIGNER EMERGENCY BUGEYE WITH 90 MINUTE BATTERY BACKUP	DUAL LITE: L22	120	INCLUDED

GENERAL NOTES

1. CONSULT ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATION OF ALL LIGHTING FIXTURES.
2. VERIFY ALL EQUIPMENT DIMENSIONS AND LOCATIONS BEFORE BEGINNING ROUGH IN. CONSULT ALL APPLICABLE CONTRACT DRAWINGS; AND SHOP DRAWINGS TO INSURE NEC CODE CLEARANCES REQUIRED AROUND ALL ELECTRICAL EQUIPMENT.
3. CONTRACTOR SHALL VERIFY ALL ELECTRICAL LOADS (VOLTAGE, PHASE, CONNECTION REQUIREMENTS, ETC.) OF EQUIPMENT FURNISHED UNDER DIVISION 15 WITH APPROVED MECHANICAL SHOP DRAWINGS BEFORE BEGINNING ROUGH IN.
4. SEE SPECIFICATIONS FOR REQUIRED COORDINATION MEETINGS WITH MECHANICAL AND CEILING CONTRACTORS.
5. SEE APPLICABLE SHOP DRAWINGS FOR ROUGH IN LOCATION OF ALL EQUIPMENT, WIRING DEVICES, ETC. WHERE APPLICABLE MOUNT ALL WIRING DEVICES ABOVE BACK SPLASH EXCEPT THOSE SERVING UNDER COUNTER EQUIPMENT.
6. SEE SPECIFICATION FOR ENERGY SAVING LAMP AND BALLAST REQUIREMENTS.
7. FINISHES OF ALL LIGHT FIXTURES SHALL BE AS SELECTED BY ARCHITECT.
8. THE ELECTRICAL CONTRACTOR SHALL NOTIFY AND COOPERATE WITH THE MECHANICAL CONTRACTOR SUCH THAT NO PIPING, DUCTS, OR EQUIPMENT FOREIGN TO THE OPERATION OF THE ELECTRICAL EQUIPMENT SHALL BE PERMITTED TO BE INSTALLED IN, ENTER OR PASS THRU ELECTRICAL ROOMS OR SPACES, OR ABOVE OR BELOW ELECTRICAL EQUIPMENT IN OTHER AREAS.
9. ELECTRICAL BOXES SHALL NOT BE LOCATED IN MASONRY COLUMNS IN BRICK WALLS OR IN GROUTED CELLS ADJACENT TO OPENINGS. COORDINATE LOCATION OF BOXES WITH MASONRY CONTRACTOR.
10. ALL PENETRATIONS OF FIRE RATED FLOORS, WALLS, AND CEILINGS SHALL BE SEALED WITH APPROVED MATERIAL TO MAINTAIN FIRE RATING OF SURFACE PENETRATED.
11. CIRCUITS EXTENDING OVER 70' FOR 120 VOLT AND 165' FOR 277 VOLT 20 AMP CIRCUITS SHALL BE RUN WITH MINIMUM #10 CONDUCTORS.

INDEX OF ELECTRICAL DRAWINGS	
EG101	SYMBOLS, NOTES AND SCHEDULES
EG102	ELECTRICAL SPECIFICATIONS
EG103	LIGHTING COMPLIANCE CERTIFICATE
EE101	ELECTRICAL PLAN
EX301	ELECTRICAL DIAGRAMS

CREATED BY: P+A architects

ARCHITECTURE PLANNING DESIGN

DEPARTMENT OF NATURAL
RESOURCES
NEW MAINTENANCE
BUILDING

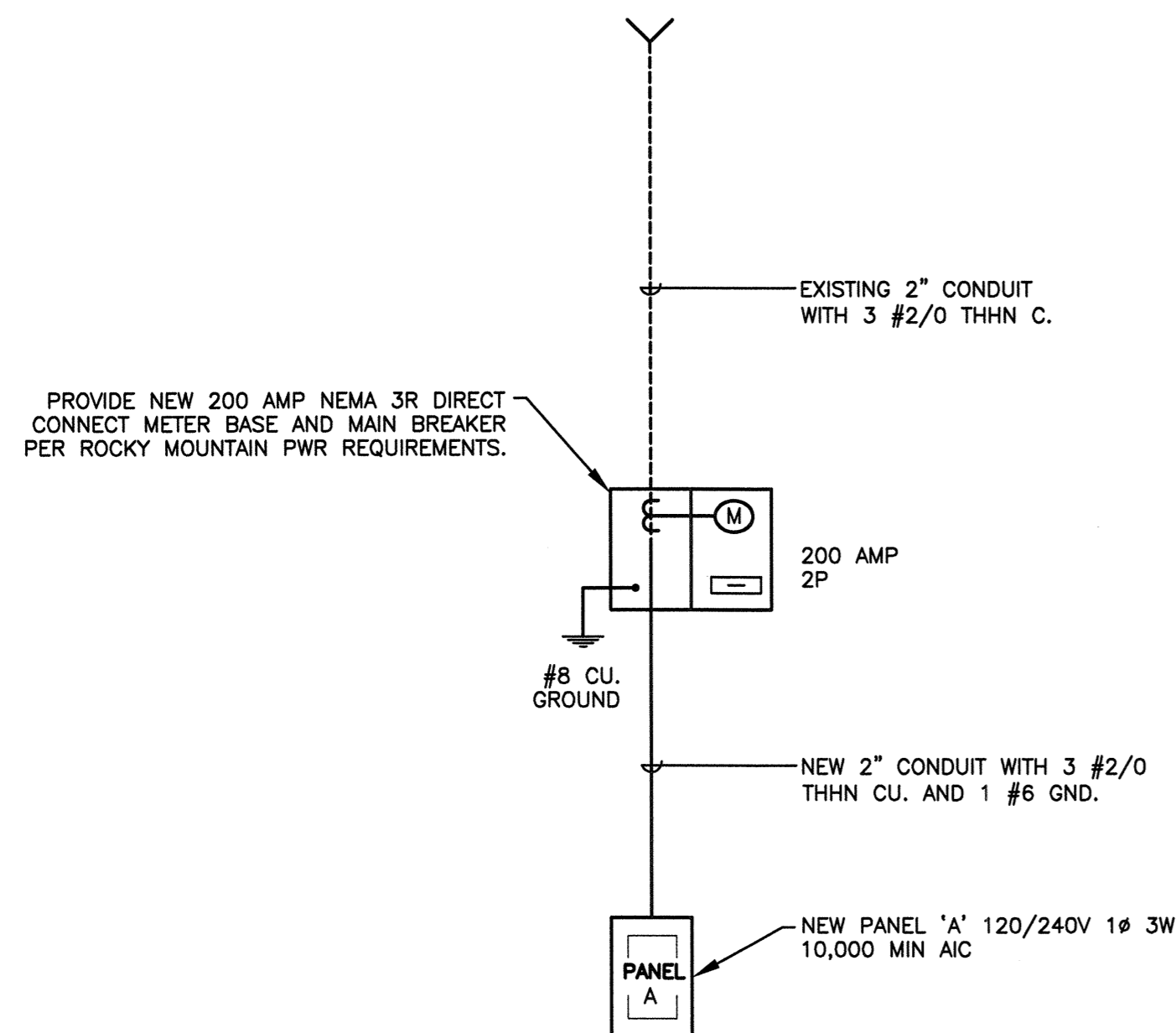
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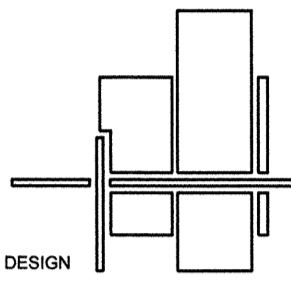
SHEET NUMBER

EG101

SHEET 24 OF 28



1 ONE-LINE DIAGRAM
NO SCALE



ELECTRICAL SPECIFICATIONS

GENERAL PROVISIONS

A. REFERENCE

1. THE GENERAL CONDITIONS AND OTHER CONTRACT DRAWINGS AS SET FORTH IN THE FOREGOING PAGES ARE HEREBY INCORPORATED INTO AND BECOME A PART OF THE SPECIFICATIONS FOR WORK UNDER THIS TITLE, INsofar AS THEY APPLY HERETO.
2. ALL SPECIFICATIONS UNDER THIS DIVISION TITLE ARE DIRECTED TO AND ARE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR. UNLESS OTHER TRADES OR PERSONS ARE SPECIFICALLY MENTIONED, "ELECTRICAL CONTRACTOR" IS INFERRED AND INTENDED.

B. CONTRACT DRAWINGS

1. THE DRAWINGS ACCOMPANYING THESE SPECIFICATIONS ARE COMPLEMENTARY EACH TO THE OTHER AND WHAT IS CALLED FOR BY ONE SHALL BE AS IF CALLED FOR BY BOTH.
2. CONSULT ALL CONTRACT DRAWINGS WHICH MAY AFFECT THE LOCATION OF EQUIPMENT, CONDUIT AND WIRING AND MAKE MINOR ADJUSTMENTS IN LOCATION TO SECURE COORDINATION.
3. WIRING LAYOUT IS SCHEMATIC AND EXACT LOCATIONS SHALL BE DETERMINED BY FIELD CONDITIONS.
4. OTHER THAN MINOR ADJUSTMENTS SHALL BE SUBMITTED TO THE OWNER'S REPRESENTATIVE FOR APPROVAL BEFORE PROCEEDING WITH THE WORK.

C. JOB-SITE COPY OF DOCUMENTS

1. MAINTAIN AT THE SITE, ONE COPY OF ALL DRAWINGS, SPECIFICATIONS, ADDENDA APPROVED SHOP DRAWINGS, CHANGE ORDERS AND OTHER MODIFICATIONS, IN GOOD ORDER AND MARKED TO RECORD ALL CHANGES MADE DURING CONSTRUCTION. THESE SHALL BE AVAILABLE TO THE OWNER'S REPRESENTATIVE. THE DRAWINGS MARKED TO RECORD ALL CHANGES MADE DURING CONSTRUCTION SHALL BE DELIVERED TO THE OWNER'S REPRESENTATIVE FOR THE OWNER UPON COMPLETION OF THE WORK. AN ADDITIONAL SET OF DRAWINGS WILL BE FURNISHED BY THE OWNER'S REPRESENTATIVE FOR THIS PURPOSE UPON REQUEST.

D. MANUFACTURER'S DRAWINGS

1. THE CONTRACTOR SHALL SUBMIT TO THE ARCHITECT FOR REVIEW, (6) COPIES OF MANUFACTURER'S DRAWINGS AND WIRING DIAGRAMS. THE ENGINEER WILL REVIEW CONTRACTOR'S SHOP DRAWINGS AND RELATED SUBMITTALS (AS INDICATED BELOW) WITH RESPECT TO THE ABILITY OF THE DETAILED WORK, WHEN COMPLETE, TO BE A PROPERLY FUNCTIONING INTEGRAL ELEMENT OF THE OVERALL SYSTEM DESIGNED BY THE ENGINEER. BEFORE SUBMITTING A SHOP DRAWING OR ANY RELATED MATERIAL TO THE ENGINEER, CONTRACTOR SHALL: REVIEW EACH SUCH SUBMISSION FOR CONFORMANCE WITH THE MEANS, METHODS, TECHNIQUES, SEQUENCES, AND OPERATIONS OF CONSTRUCTION, AND SAFETY PRECAUTIONS AND PROGRAMS INCIDENTAL THERETO; ALL OF WHICH ARE THE SOLE RESPONSIBILITY OF CONTRACTOR; APPROVE EACH SUCH SUBMISSION BEFORE SUBMITTING IT; AND SO STAMP EACH SUCH SUBMISSION BEFORE SUBMITTING IT. THE ENGINEER SHALL ASSUME THAT NO SHOP DRAWING OR RELATED SUBMITTAL COMPREHENS A VARIATION UNLESS CONTRACTOR ADVISES ENGINEER OTHERWISE VIA A WRITTEN INSTRUMENT WHICH IS ACKNOWLEDGED BY ENGINEER IN WRITING. THE ITEMS, TYPES OF SUBMITTALS AND RELATED MATERIAL (IF ANY) CALLED FOR ARE INDICATED BELOW:

ITEMS	TYPE SUBMITTALS REQUIRED
LIGHTING AND POWER PANELS	SHOP DRAWINGS
LIGHTING FIXTURES	CATALOG CUTS
LIGHTING CONTROL EQUIPMENT	CATALOG CUTS
EMERGENCY LIGHTING EQUIPMENT	CATALOG CUTS

E. GUARANTEES

1. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DEFECTS, REPAIRS AND REPLACEMENTS IN MATERIALS AND WORKMANSHIP FOR A PERIOD OF ONE (1) YEAR AFTER DATE OF SUBSTANTIAL COMPLETION AS DETERMINED BY THE OWNER'S REPRESENTATIVE. PRODUCT GUARANTEES GREATER THAN ONE (1) YEAR SHALL BE PASSED ALONG TO THE OWNER FOR FULL BENEFIT OF THE MANUFACTURER'S WARRANTY.

WORK INCLUDED

A. INSTALLATION, MATERIALS, AND WORKMANSHIP

1. FURNISH AND INSTALL ALL NECESSARY ANCHORS, SUPPORTS, STRAPS, BOXES, FITTINGS AND OTHER SIMILAR APPURTENANCES NOT INDICATED ON THE DRAWINGS BUT WHICH ARE REQUIRED FOR A COMPLETE AND PROPERLY INSTALLED SYSTEM CONSISTENT WITH THE ARCHITECTURAL TREATMENT OF THE BUILDING.
2. THE ELECTRICAL CONTRACTOR, INsofar AS THE WORK IS CONCERNED, SHALL AT ALL TIMES KEEP THE PREMISES IN A NEAT AND ORDERLY CONDITION, AND AT THE COMPLETION OF THE WORK, SHALL PROPERLY CLEAN UP AND CART AWAY DEBRIS AND EXCESS MATERIALS. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE COST OF DUMPSTER & REFUSE DISPOSAL AS REQUIRED FOR ELECTRICAL WORK.
3. ALL MATERIALS SHALL BE NEW AND UNDETERIORATED AND OF A QUALITY NOT LESS THAN THE MINIMUM SPECIFIED.

B. COORDINATION OF PLANS AND SPECIFICATIONS

1. CONTACT THE OWNER'S REPRESENTATIVE IMMEDIATELY IF THERE IS ANY QUESTIONS REGARDING THE MEANING OR INTENT OF EITHER PLANS OR SPECIFICATIONS, OR UPON NOTICING ANY DISCREPANCIES OR OMISSIONS IN EITHER PLANS OR SPECIFICATIONS.

C. CUTTING AND PATCHING

1. PATCHING SHALL MATCH EXISTING SURFACES IN KIND AND FINISH AND SHALL BE DONE BY THE GENERAL CONTRACTOR AT THE ELECTRICAL CONTRACTOR'S EXPENSE.
2. REPAIR OF DAMAGES, BY THE ELECTRICAL CONTRACTOR, TO NEWLY PATCHED AND REFINISHED AREAS SHALL BE DONE BY THE GENERAL CONTRACTOR AT THE ELECTRICAL CONTRACTOR'S EXPENSE, TO MATCH EXISTING CONDITION.
3. WHERE REQUIRED TO MAINTAIN FIRE RATING, OPENINGS SHALL BE SEALED UTILIZING 3M BRAND FIRE BARRIER PENETRATION SEALING SYSTEMS. FIRE BARRIER OR FIRE STOP SYSTEMS FROM CROUSE-HINDS, THOMAS & BETTS OR DOW CORNING MAY BE USED AT CONTRACTOR'S OPTION. THIS INCLUDES HOLES LEFT DUE TO REMOVAL OF EXISTING CONDUITS, BUS DUCT, ETC. OPENINGS SHALL BE TEMPORARILY FIRE STOPPED UNTIL PERMANENT FIRE STOPPING IS DONE.

D. CLEANING AND PAINTING

1. ALL ELECTRICAL EQUIPMENT SHALL BE KEPT DRY AND CLEAN DURING THE CONSTRUCTION PERIOD. INTERIOR OF ALL ENCLOSURES SHALL BE CLEANED OF DIRT AND DEBRIS BEFORE INSTALLING TRIM OR COVERS.
2. ALL FINISHED SURFACES OF EQUIPMENT FURNISHED UNDER THIS CONTRACT SHALL BE THOROUGHLY CLEANED OF DIRT AND ALL SCRATCHED OR DAMAGED SURFACES SHALL BE TOUCHED UP WITH MATCHING MATERIALS BEFORE FINAL ACCEPTANCE OF THE WORK.
3. WHEN ALL WORK IS COMPLETED AND ALL WORK HAS BEEN SATISFACTORILY TESTED AND ACCEPTED BY THE OWNER'S REPRESENTATIVE, ALL CONDUIT AND OTHER EXPOSED SURFACES SHALL BE THOROUGHLY CLEANED.

CODES AND FEES

A. CODES:

1. ALL WORK PERFORMED UNDER THIS SPECIFICATION SHALL BE DONE IN ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE AS PREPARED AND PUBLISHED BY THE NATIONAL FIRE PROTECTION ASSOCIATION AND ANY APPLICABLE STATE OR LOCAL CODES.

B. FEES:

1. OBTAIN AND PAY FOR ANY AND ALL PERMITS REQUIRED BY ALL LAWS AND REGULATIONS AND PUBLIC AUTHORITY HAVING SUCH JURISDICTION.

TESTS AND INSPECTIONS

- A. OBTAIN ALL INSPECTIONS REQUIRED BY ALL LAWS, ORDINANCES, RULES, REGULATIONS OR PUBLIC AUTHORITY HAVING JURISDICTION AND OBTAIN CERTIFICATES OF SUCH INSPECTIONS AND SUBMIT SAME TO THE OWNER'S REPRESENTATIVE. PAY ALL FEES, CHARGES AND OTHER EXPENSES IN CONNECTION THEREIN. OBTAIN OCCUPANCY PERMIT AS REQUIRED BY OWNER. FINAL PAYMENT SHALL NOT BE MADE UNTIL OCCUPANCY PERMIT IS OBTAINED.
- B. WORK SHALL BE UNACCEPTABLE WHEN FOUND TO BE DEFECTIVE OR CONTRARY TO THE PLANS SPECIFICATIONS, CODES SPECIFIED OR ACCEPTED STANDARDS OF GOOD WORKMANSHIP.
- C. THE CONTRACTOR SHALL PROMPTLY CORRECT ALL WORK FOUND UNACCEPTABLE BY THE BY THE OWNER'S REPRESENTATIVE WHETHER OBSERVED BEFORE OR AFTER SUBSTANTIAL COMPLETION AND WHETHER OR NOT FABRICATED, INSTALLED OR COMPLETED. THE CONTRACTOR SHALL BEAR ALL COSTS OF CORRECTING SUCH UNACCEPTABLE WORK, INCLUDING COMPENSATION FOR THE OWNERS REPRESENTATIVE ADDITIONAL SERVICES MADE NECESSARY THEREBY.

CONDUIT

- A. FURNISH AND INSTALL ALL CONDUITS, BOXES, FITTINGS, ETC., FOR A COMPLETE RACEWAY SYSTEM.
- B. ALL WIRING SHALL BE RUN IN EMT CONDUIT OR MC WITH GROUND CONDUCTOR UNLESS OTHERWISE NOTED.
- C. ALL CONDUIT SIZES STATED HEREIN OR MARKED ON THE DRAWINGS ARE MINIMUM SIZE AND SHALL BE NO LESS THAN 1/2" UNLESS OTHERWISE NOTED.
- D. ALL CONDUIT SHALL BE SUBSTANTIALLY SUPPORTED BY PIPE STRAPS OR SUITABLE CLAMPS OR HANGERS ATTACHED TO THE ELEMENTS OF THE BUILDING STRUCTURE TO PROVIDE RIGID INSTALLATION; IN NO CASE SHALL CONDUIT BE ATTACHED OR SUPPORTED FROM ADJOINING PIPE OR INSTALLED IN SUCH A MANNER AS TO PREVENT THE READY REMOVAL OF OTHER PIPE FOR REPAIRS.

WIRE AND CABLE

- A. ALL CONDUCTORS SHALL BE COPPER AND OF THE AWG SIZE AND TYPE SHOWN ON THE DRAWINGS. WHERE NO SIZE OR TYPE IS SHOWN, CONDUCTORS SHALL NOT BE LESS THAN #12 TYPE XHHW, THHN, OR THWN. CONDUCTORS #8 AWG AND LARGER SHALL BE STRANDED COPPER AND HAVE 600 VOLT INSULATION; BE UL LABELED AND OF AMERICAN MANUFACTURE.
- B. ALL CONNECTIONS ARE TO BE MADE USING PRESSURE TYPE TERMINALS.
- C. THE FOLLOWING COLOR CODE SHALL BE USED:

	120/240 VOLT
PHASE A	BLACK
PHASE B	RED
GROUND	WHITE
	GREEN

- D. CONDUCTORS NO. 10 AWG OR SMALLER SHALL HAVE INSULATION COLORED AS NOTED ABOVE.
- E. CONDUCTORS NO. 8 AWG OR LARGER SHALL HAVE INSULATION COLORED AS NOTED ABOVE OR COLORED TAP, MINIMUM SIZE 1/2", WRAPPED TWICE AROUND AT THE FOLLOWING POINTS:
 - 1) AT EACH TERMINAL
 - 2) AT EACH CONDUIT ENTRANCE
 - 3) AT INTERVALS NOT MORE THAN 12 INCHES APART IN ALL BOXES, PANEL TUBS, SWITCHBOARDS, ETC.

- F. ALL BRANCH CIRCUITS SHALL BE MARKED IN THE PANELBOARD GUTTERS. MARKERS SHALL INDICATE CORRESPONDING BRANCH-CIRCUIT NUMBERS.
- G. EACH BRANCH CIRCUIT REQUIRING A NEUTRAL SHALL BE FURNISHED WITH A SEPARATE INDIVIDUAL NEUTRAL CONDUCTOR.

BOXES AND PLATES

- A. FURNISH AND INSTALL ALL OUTLET, JUNCTION, AND PULLBOXES AS INDICATED ON THE DRAWINGS AND AS NECESSARY TO INSTALL THE REQUIRED CONDUIT AND WIRING IN A NEAT AND WORKMANLIKE MANNER.
- B. PULLBOXES AND JUNCTION BOXES SHALL BE GALVANIZED AND OF THE CORRECT SIZE AND GAUGE, SIZED IN ACCORDANCE WITH CODE REQUIREMENTS AND SHALL BE U.L. LABELED.
- C. FLUSH OUTLET, JUNCTION AND PULLBOXES SHALL BE PRESSED STEEL GALVANIZED OR SHERARDIZED AND SHALL BE A MINIMUM OF 4" SQUARE OR OCTAGONAL SIMILAR TO APPLETON #40. STEEL BOXES CAST IN CONCRETE SHALL BE DESIGNED FOR CONCRETE INSTALLATION.
- D. FLUSH WALL BOXES IN TILE, MARBLE, BRICK OR OTHER FINISHED MASONRY WALLS SHALL BE STEEL CITY GW-135-C SERIES OR RACO 695 SERIES.
- E. BOXES AT EXTERIOR AREAS TO BE WATERTIGHT AND DUST-TIGHT WITH GASKETED COVERS.
- F. ALL BOXES FOR EXPOSED WORK IN FINISHED SPACES SHALL BE "FS" TYPE WITH THREADED HUBS WITH RIGID CONDUIT RISER (DEEP WIREMOLD BOXES).
- G. SWITCH PLATES ON FLUSH AND CAST BOXES SHALL BE SIERRA NOS. S-IN, (P-1), S-2N (P-2), S-3N (P-3) ETC., AS REQUIRED, AND SHALL BE MADE OF SATIN FINISH #302 STAINLESS STEEL.
- H. DUPLEX RECEPTACLE PLATES ON FLUSH AND CAST BOXES SHALL BE SIERRA NO. S-8N (P-8) SATIN FINISH #302 STAINLESS STEEL.
- I. ALL BOXES SHALL BE RIGIDLY SUPPORTED FROM BUILDING STRUCTURE INDEPENDENT OF THE CONDUIT SYSTEM. BOXES CAST INTO MASONRY OR CONCRETE ARE CONSIDERED TO BE RIGIDLY SUPPORTED.

WIRING DEVICES

- A. WIRING DEVICES SHALL BE SIMILAR TO THOSE LISTED BELOW AND OF SPECIFIED AMPERAGE. OTHER SPECIAL PURPOSE DEVICES SHALL BE AS SPECIFIED ON THE DRAWINGS.
 - B. DUPLEX GROUNDING TYPE RECEPTACLE - 20 AMP, 125 VOLT - NEMA 5-20R
HUBBELL - 5352
ARROW HART - 5352
 - C. SINGLE POLE SWITCHES - 20 AMP, 120 VOLT
HUBBELL - 1221
ARROW HART - 1221
 - D. 3-WAY SWITCHES - 20 AMP, 120 VOLT
HUBBELL - 1223
ARROW HART - 1273
 - E. WEATHERPROOF RECEPTACLES - 20 AMP, 125 VOLT - NEMA 5-20R
HUBBELL - 5352 WITH 5205 COVER INTERMATIC GUARDIAN I SERIES, NEMA 3R COVER
ARROW HART - 5352 WITH 4500 COVER
 - F. G.F.I. RECEPTACLE - 20 AMP, 125 VOLT - NEMA 5-20R
HUBBELL - GF 5262 WITH MATCHING NYLON COVER PLATE OR WP-26 W.P. COVER
 - G. GROUND ALL RECEPTABLES IN ACCORDANCE WITH ARTICLE 250-146 OF NEC AND AS INDICATED IN THE GROUNDING SECTION OF THIS SPECIFICATION.

IDENTIFICATION

- A. EACH PIECE OF SERVICE EQUIPMENT AND INDIVIDUAL SWITCHES, ALL DISCONNECTS, STARTERS, ALL EXHAUST FAN MANUAL STARTING SWITCHES.
- B. IDENTIFICATION SHALL BE IN THE FORM OF LAMINATED PLASTIC NAMEPLATES, BLACK FACE, WITH THE LETTERS ENGRAVED INTO THE WHITE BACKGROUND, MINIMUM 1/4" HIGH. PLATES SHALL BE DRILLED ON EACH END FOR SHEET METAL SCREW ATTACHMENT. NO "DYM" OR SIMILAR TYPE LABELS WILL BE ALLOWED.
- C. PANELBOARD DIRECTORY: A TYPED CIRCUIT DIRECTORY SHALL BE PROVIDED INDICATING LOCAL AREA SERVED AND LOCATION FOR EACH BRANCH CIRCUIT.

GROUNDING

- A. ALL FEEDERS AND BRANCH CIRCUITS OVER 100 VOLTS SHALL INCLUDE A GROUNDING CONDUCTOR SIZED IN ACCORDANCE WITH NEC TABLE 250-122, EXCEPT NOT BE SMALLER THAN #12 FOR POWER AND LIGHTING CIRCUITS AND #14 FOR CONTROL CIRCUITS. ALL GROUND CONDUCTORS SHALL BE GREEN, OR AS SPECIFIED UNDER SECTION 16120, "WIRE AND CABLE".
- B. ALL GROUND CLAMPS SHALL BE PENN-UNION "JPL" TYPE OR SIMILAR BY O.Z. OR BURNDY.
- C. CONDUIT FOR SOLITARY GROUND CONDUCTORS SHALL BE RIGID SCHEDULE 40PVC NON-METALLIC ELECTRICAL CONDUIT WITH U.L. LABEL. SOLITARY GROUND CONDUCTORS SHALL NOT BE PLACED THROUGH METALLIC SLEEVES OR CONDUITS AND SHALL NOT BE COMPLETELY ENCIROLED BY METALLIC HANGERS OR SUPPORTS.
- D. THE GROUND CONDUCTOR SHALL BE CONNECTED TO THE NEUTRAL IN ONLY TWO LOCATIONS - ON THE SUPPLY SIDE OF THE SERVICE DISCONNECT MEANS PER NEC-250-24 AND ON SEPARATELY DERIVED SYSTEMS PER NEC 250-30.
- E. AT EACH RECEPTACLE BOX, THE GROUND CONDUCTOR SHALL ENTER AND CONNECT, WITH NORMAL WIRING CONNECTOR, TO: 1) THE GROUND PIGTAIL TO RECEPTACLE; 2) THE GROUND PIGTAIL TO BOX GROUND SCREW; AND 3) THE OUTGOING GROUND CONDUCTOR TO NEXT DEVICE, IF NOT AT END OF RUN. METAL TO METAL CONTACT BETWEEN THE DEVICE YOLK AND THE OUTLET BOX IS NOT ACCEPTABLE AS A BOND FOR EITHER SURFACE MOUNTED BOXES OR FLUSH TYPE BOXES.
- F. CONDUIT SYSTEM SHALL BE ELECTRICALLY CONTINUOUS. ALL LOCK NUTS SHALL CUT THROUGH ENAMELED OR PAINTED SURFACES ON ENCLOSURES. WHERE ENCLOSURES AND NON-CURRENT CARRYING METALS ARE ISOLATED FROM THE CONDUIT SYSTEM, USE BONDING JUMPMERS WITH APPROVED CLAMPS, WHERE REDUCING WASHERS ARE USED AND WHERE CONCENTRIC OR ECCENTRIC KNOCKOUTS ARE NOT COMPLETELY REMOVED BONDING BUSHINGS SHALL BE REQUIRED.

INTERRUPTION OF SERVICE AND OWNER'S OPERATION

- A. THE ELECTRICAL CONTRACTOR SHALL ORGANIZE HIS WORK SO THAT THESE ALTERATIONS AND ADDITIONS SHALL CAUSE A MINIMUM OF INTERFERENCE AND DISTURBANCE TO THE OWNER. ARRANGEMENTS SHALL BE MADE WITH THE OWNER AND ENGINEER BEFORE INTERRUPTING SERVICE IN ANY AREA. A WRITTEN DETAILED METHOD OF INTERRUPTING SERVICE INDICATING ELAPSED TIME REQUIRED AND TIME OF INTERRUPTION SHALL BE PREPARED BY THE ELECTRICAL CONTRACTOR AND SUBMITTED TO THE OWNER FOR APPROVAL.
- B. ALL INTERRUPTIONS OF SERVICE SHALL BE MADE WHEN THE LOAD IS AT A MINIMUM AND SHALL BE SCHEDULED AT THE OWNER'S CONVENIENCE. (SERVICE INTERRUPTIONS WILL BE SCHEDULED FOR OTHER THAN NORMAL DAYTIME WORKING HOURS. THE ELECTRICAL CONTRACTOR SHALL INCLUDE NECESSARY COST FOR OVERTIME LABOR IN ALL BIDS.)
- C. AT NO TIME SHALL THE ELECTRICAL CONTRACTOR OR HIS EMPLOYEES NORMALLY WORKING ON THE PROJECT LEAVE THE FACILITY DURING A TIME WHEN ANY NORMALLY LIVE CIRCUITS OR FEEDERS ARE DISCONNECTED, WITHOUT PERMISSION OF THE ENGINEER.
- D. ALL MATERIALS, CONNECTIONS AND EQUIPMENT OR TEMPORARY CONTROL OR POWER WIRING TO MAINTAIN CONTINUITY OF SERVICE DURING CONSTRUCTION SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR.

POWER AND LIGHTING PANELS

- A. FURNISH AND INSTALL, AS SCHEDULED AND SHOWN ON THE DRAWINGS, POWER PANELS FOR OPERATION ON VOLTAGES INDICATED.
- B. THE PANELS SHALL BE SQUARE D, TYPE M20D, NEHB OR I-LINE OR EQUAL, WITH BRANCH BREAKERS AS SCHEDULED ON THE DRAWINGS.
- C. ALL TERMINATIONS SHALL BE MARKED "75°C ONLY", "60/75°C" OR LISTED FOR USE OF 75°C INSULATED CONDUCTORS AT FULL 75°C AMPACITY.
- D. ALL BUS BARS SHALL BE SILVER OR TIN PLATED COPPER.
- E. CABINETS SHALL BE OF COMMERCIAL GALVANIZED SHEET STEEL, CODE GAUGE AND SIZE, SURFACE OR FLUSH MOUNTED AS CALLED FOR IN THE DRAWINGS. FLUSH PANELS SHALL BE FINISHED WITH PRIME COAT ONLY. DOORS SHALL BE FITTED WITH CHROME PLATED COMBINATION LOCK AND CATCH, AND ALL KEYS) ALIKE.
- F. NEUTRAL ASSEMBLY SHALL HAVE INDIVIDUAL ANTI-TURN SOLDERLESS TERMINALS, SIMILAR TO SQUARE D TYPE PK, FOR CONNECTION OF ULTIMATE NUMBER OF NEUTRAL WIRES. SHEET METAL TERMINAL STRIPS AND CONNECTIONS WILL BE REJECTED.
- G. PANEL SHALL HAVE A COPPER GROUND BAR SIMILAR TO NEUTRAL BAR IN NUMBER, SIZE, AND TYPE OF ANTI-TURN SOLDERLESS LUGS. THIS GROUND BAR SHALL BE FACTORY BONDED TO THE PANEL TUB IN THE GUTTER SPACE OPPOSITE THE MAINS AND THE NEUTRAL ASSEMBLY AND SHALL HAVE THE SCREWDRIWER SLOTS FACING THE FRONT OF THE PANEL.
- H. THE MAIN AND BRANCH BREAKERS SHALL BE TYPE QOB OR QOB-H RATED 10,000 A.I.C. MINIMUM, MOLDED CASE, TEMPERATURE COMPENSATED, QUICK-MAKE, QUICK-BREAK, WITH THERMAL-MAGNETIC TRIP AND PERMANENTLY BOLTED TO BUS BARS.

- I. PANELS SHALL BE MOUNTED WITH TOP OF PANEL AT 6'-0" ABOVE FLOOR.

LIGHTING FIXTURES

- A. CONTRACTOR SHALL FURNISH AND INSTALL LIGHTING FIXTURES AND LAMPS AS INDICATED IN FIXTURE SCHEDULE SHOWN ON DRAWINGS, AND SPECIFIED HEREIN.
- B. LENS THICKNESS FOR FLUORESCENT FIXTURES SHALL BE 0.125 INCHES, MINIMUM (NOT NOMINAL) AND HAVE A MINIMUM WEIGHT OF 8.0 OUNCES PER SQUARE FOOT.
- C. LAMP SOCKETS FOR BARE TUBE FLUORESCENT FIXTURES SHALL BE SPRING LOADED TURRET TYPE.
- D. FLUSH FIXTURES MAY BE FURNISHED WITH PRE-WIRED FEATURE PROVIDED THEY ARE U.L. APPROVED FOR 75°C WIRING AND THE JUNCTION BOX CAPACITY IS SUFFICIENT FOR THE CIRCUIT WIRING REQUIREMENTS.
- E. CLEARANCES FOR RECESSED PORTIONS OF FIXTURES FROM COMBUSTIBLE MATERIAL AND THERMAL INSULATION, SHALL BE IN ACCORDANCE WITH NEC ARTICLE 410-66.
- F. ALL FLUORESCENT LAMP BALLAST SHALL BE ELECTRONIC WITH LESS THAN 20% HARMONIC DISTORTION. BALLAST SOUND LEVELS SHALL NOT EXCEED CLASS "A", AMBIENT NOISE LEVELS, HPF TYPE, WITH PARALLELING WIRING CONNECTION, BE CBM AND U.L. APPROVED. BALLAST MAY BE MANUFACTURED BY ADVANCE, TYPE MARK V; ETIA INDUSTRIES TYPE E2P; OR MAGNETEK-TRIAD, B SERIES; OR MOTOROLA TYPE MOTRN.
- G. NEUTRAL ASSEMBLY SHALL HAVE INDIVIDUAL ANTI-TURN SOLDERLESS TERMINALS, SIMILAR TO SQUARE D TYPE PK, FOR CONNECTION OF ULTIMATE NUMBER OF NEUTRAL WIRES. SHEET METAL TERMINAL STRIPS AND CONNECTIONS WILL BE REJECTED.
- H. PANEL SHALL HAVE A COPPER GROUND BAR SIMILAR TO NEUTRAL BAR IN NUMBER, SIZE, AND TYPE OF ANTI-TURN SOLDERLESS LUGS. THIS GROUND BAR SHALL BE FACTORY BONDED TO THE PANEL TUB IN THE GUTTER SPACE OPPOSITE THE MAINS AND THE NEUTRAL ASSEMBLY AND SHALL HAVE THE SCREWDRIWER SLOTS FACING THE FRONT OF THE PANEL.

- I. ALL LAMP HOLDERS INSTALLED BY THE ELECTRICAL CONTRACTOR SHALL BE FURNISHED COMPLETE WITH NEW LAMPS OF THE SIZE INDICATING ON THE FIXTURE SCHEDULE.
- J. FLUORESCENT LAMPS SHALL BE 32 WATT, T8 RAPID START LAMPS WITH A COLOR TEMPERATURE OF 3500°K AND A MINIMUM CRI OF 74. UNLESS NOTED OTHERWISE.
- K. LAMP CURRENT CREST FACTOR SHALL NOT EXCEED 1.8 AND SHALL BE COMPATIBLE WITH BALLAST BEING UTILIZED.
- L. ANY FIXTURES SCRATCHED, BENT, CRACKED OR IN ANY WAY DAMAGED BEFORE ACCEPTANCE BY OWNER SHALL BE REPLACED AT THIS CONTRACTOR'S EXPENSE.
- M. ALL LAMPS SHALL BE IN WORKING ORDER AT THE TIME OF FINAL ACCEPTANCE OF THE WORK BY THE OWNER.
- N. ALL LIGHTING FIXTURES ARE TO BE GROUNDLED ON THE INTERIOR OF THE FIXTURE HOUSING, ON CLEAN BARE METAL (FREE OF PAINT), BY USE OF A PIGTAIL AND FASTENED BY A SCREW USED FOR NO OTHER PURPOSE.
- O. WHEREVER LIGHTING SYSTEMS ARE SUPPORTED AND FASTENED TO A CEILING SUSPENSION SYSTEM OF THE GRID TYPE, EACH FIXTURE SHALL HAVE A SUPPORT WIRE AT OPPOSITE CORNER OF EACH RECESSED FIXTURE. EACH FIXTURE SHALL BE FASTENED TO THE GRID SYSTEM IN ACCORDANCE WITH NEC ARTICLE 410-16(C) USING SUITABLE CLIPS. THE T-BAR SHALL NOT BE CUT OUT TO PROVIDE ROOM FOR THE JUNCTION BOX.

MOTOR STARTERS AND CIRCUIT DISCONNECTS

- A. GENERAL: EXCEPT AS OTHERWISE INDICATED, PROVIDE MOTOR STARTERS, DISCONNECT SWITCHES, WHICH COMPLY WITH MANUFACTURER'S STANDARD MATERIALS, DESIGN AND CONSTRUCTION IN ACCORDANCE WITH PUBLISHED INFORMATION AND AS REQUIRED FOR COMPLETE INSTALLATIONS.
- B. GENERAL DUTY SWITCHES: PROVIDE GENERAL-DUTY TYPE, SHEET-STEEL ENCLOSED SWITCHES, FUSIBLE OR NON-FUSIBLE AS INDICATED OF TYPES, SIZES AN ELECTRICAL CHARACTERISTICS INDICATED; RATED 240 VOLTS, 60 HERTZ; INCORPORATING SPRING ASSISTED, QUICK-MAKE, QUICK-BREAK MECHANISMS. PROVIDE SINGLE PHASE OR THREE PHASE AND WITH SOLID NEUTRAL AS REQUIRED BY APPLICATION. EQUIP WITH OPERATING HANDLE WHICH IS CAPABLE OF BEING PADLOCKED IN "OFF" POSITION. PROVIDE NEMA 1 OR NEMA 3R AS REQUIRED BY APPLICATION, UNLESS NOTED. PROVIDE FUSIBLE SWITCHES WITH CLASS R REJECTION FUSE CLIP KITS.
- C. THERMAL OVERLOAD UNITS: PROVIDE THERMAL OVERLOAD UNITS, SIZED TO ACTUAL RUNNING FULL LOAD CURRENT, NOT TO MOTOR PLATE CURRENT. SIZE HEATERS FOR MECHANICAL EQUIPMENT AFTER AIR AND WATER BALANCING HAVE BEEN COMPLETED.
- D. AC FRACTIONAL HP MANUAL STARTERS (EQUAL TO SQUARE D CLASS 2510): PROVIDE MANUAL SINGLE-PHASE, 1 AND 2 POLE, 300 VOLT AC MAX. FRACTIONAL HP MOTOR STARTERS, OF TYPES, RATINGS AND ELECTRICAL CHARACTERISTICS INDICATED; EQUIP WITH ONE PIECE THERMAL OVERLOAD RELAY WITH FIELD ADJUSTMENT CAPACITY OF PLUS OR MINUS 10 PERCENT OF NOMINAL OVERLOAD HEATER RATING; FOR PROTECTION OF AC MOTORS OF 1 HP AND LESS. (FOR MANUALLY SPECIFIED HEREIN). PROVIDE STARTER WITH QUICK-MAKE, QUICK-BREAK TRIP FREE TOGGLE MECHANISMS, GREEN PILOT LIGHTS, AND WITH LOCK-OFF TOGGLE OPERATED HANDLE. MOUNT SURFACE UNITS IN NEMA 1 ENCLOSURES, UNLESS NOTED OTHERWISE. PROVIDE NEMA 3R ENCLOSURE IN EXTERIOR OR DAMP LOCATION UNLESS NOTED OTHERWISE. PROVIDE FLUSH MOUNTED UNITS WITH COVERPLATE TO MATCH WIRING DEVICE COVERPLATES.
- E. AC LINE VOLTAGE MANUAL STARTERS (EQUAL TO SQUARE D CLASS 2510): PROVIDE LINE VOLTAGE MANUAL STARTERS, OF TYPES, RATINGS AND ELECTRICAL CHARACTERISTICS INDICATED; 2 OR 3 POLE, 600 VOLT AC MAX; EQUIP WITH PUSHBUTTON OPERATOR, LOW VOLTAGE PROTECTION FEATURE, AND GREEN PILOT LIGHT. PROVIDE STARTERS WITH TRIP FREE MECHANISM SUCH THAT CONTACTS WILL TRIP UNDER LOAD AND REMAIN OPEN UNTIL THERMAL ELEMENT HAS COOLED, AND UNIT IS RESET. MOUNT SURFACE UNITS IN NEMA 1 ENCLOSURE, UNLESS NOTED OTHERWISE. PROVIDE NEMA 3R ENCLOSURE IN EXTERIOR OR DAMP LOCATION, UNLESS NOTED OTHERWISE. PROVIDE OVERLAPPING TRIM FOR FLUSH MOUNTED UNITS.
- F. AC COMBINATION NON-REVERSING MAGNETIC STARTERS (EQUAL TO SQUARE D CLASS 8538) : PROVIDE LINE VOLTAGE COMBINATION STARTERS, OF TYPES, RATINGS, AND ELECTRICAL CHARACTERISTICS; 2 OR 3 POLE, 600 VOLT MAXIMUM WITH NON-REVERSING MAGNETIC STARTERS AS SPECIFIED HEREIN; IN COMMON CUBICLE OR ENCLOSURE WITH FUSIBLE DISCONNECT SWITCH. PROVIDE QUICK-MAKE, QUICK-BREAK, DISCONNECT FOR NEMA SIZES 1, 2, 3, AND 4; AND VISIBLE BLADE, AUTOMATIC CIRCUIT INTERRUPTERS WITH PUSH-TO-TRIP FEATURE AND SEPARATE FUSE CLIPS FOR LARGER NEMA SIZES. FUSE ALL STARTERS WITH DUAL-ELEMENT (TIME-DELAY) FUSES EQUAL TO BUSSMAN FRN/FRS-R. EQUIP DISCONNECT SWITCH WITH CLASS R REJECTION FUSE KITS. PROVIDE COMBINATION STARTERS FOR INDIVIDUAL MOUNTING, OR FOR GROUP MOUNTING IN MOTOR CONTROL CENTERS AS INDICATED. PROVIDE NEMA 1 ENCLOSURES UNLESS OTHERWISE INDICATED. PROVIDE NEMA 3R ENCLOSURE IN EXTERIOR OR DAMP LOCATIONS, UNLESS NOTED OTHERWISE.

MOTOR AND EQUIPMENT WIRING

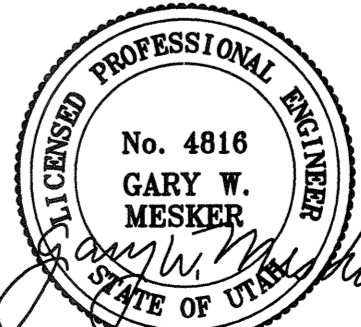
- A. PROVIDE POWER AND CONNECT ALL MOTORS AND MOTOR DRIVEN EQUIPMENT SHOWN ON THE PLANS.
- B. FURNISH, INSTALL AND CONNECT ALL OVER CURRENT AND DISCONNECT MEANS AS REQUIRED BY THE NATIONAL ELECTRICAL CODE.
- C. MOTORS AND MOTOR DRIVEN EQUIPMENT SHALL BE FURNISHED AND INSTALLED BY OTHERS. MOTOR STARTERS, CONTROLLERS AND CONTROL DEVICES SHALL BE FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR EXCEPT AS OTHERWISE NOTED. THE ELECTRICAL CONTRACTOR EXCEPT AS OTHERWISE NOTED.
- D. INSTALL AND WIRE ALL MOTOR EQUIPMENT PER WIRING DIAGRAMS AND INSTRUCTIONS FURNISHED TO HIM, INCLUDING INTERLOCK WIRING BETWEEN EQUIPMENT.

COMMUNICATIONS CONDUIT SYSTEM

- A. FURNISH AND INSTALL COMPLETE COMMUNICATIONS CONDUIT SYSTEM, INCLUDING RISER, COMMUNICATIONS CABINETS, JUNCTION BOXES AND COMMUNICATIONS OUTLETS AS REQUIRED.
- B. CONDUIT FOR COMMUNICATIONS WALL OUTLET SHALL BE MINIMUM OF 1/2" UNLESS SHOWN OTHERWISE.
- C. COMMUNICATIONS OUTLET BOXES SHALL BE MINIMUM OF 4" SQUARE AND PLATES SHALL MATCH RECEPTACLE PLATES. PROVIDE FLOOR OUTLET WHERE SHOWN ON THE PLANS.
- D. BENDS IN CONDUITS SHALL BE LONG SWEEP BENDS.
- E. NO WIRING SHALL BE INCLUDED IN THE COMMUNICATIONS CONDUIT SYSTEM, EXCEPT #14 NYLON PULL CORDS TO BE INSTALLED THROUGHOUT.
- F. CONDUIT SYSTEM SHALL BE CONTINUOUS FROM ALL OUTLETS TO COMMUNICATIONS CABINET REAM AND BUSH CONDUITS.

FIRE PENETRATION SEALS:

SEAL ALL PENETRATIONS FOR WORK OF THIS DIVISION THROUGH FIRE RATED FLOORS, WALLS AND CEILINGS TO PREVENT THE SPREAD OF SMOKE, FIRE, TOXIC GAS OR WATER THROUGH THE PENETRATION EITHER BEFORE, DURING, OR AFTER A FIRE. THE FIRE RATING OF THE PENETRATION SEAL SHALL BE AT LEAST THAT OF THE FLOOR, WALL OR CEILING INTO WHICH IT IS INSTALLED, SO THAT THE ORIGINAL FIRE RATING OF THE FLOOR OR WALL IS MAINTAINED AS REQUIRED BY ARTICLE 300-21 OF THE NATIONAL ELECTRICAL CODE. WHERE APPLICABLE, PROVIDE OZ TYPE CFSF/1 AND CAFSF/1 FIRE SEAL FITTINGS FOR CONDUIT AND CABLE PENETRATION SYSTEM, AND/OR IPC FLAME SAFE FIRE STOP SYSTEM, AND/OR CHASE FOAM FIRE STOP SYSTEM, INCLUDING WALL WRAP, PARTITIONS, CAPS, AND OTHER ACCESSORIES AS REQUIRED. ALL MATERIALS TO COMPLY WITH UL 1479 (ASTM E-814). COMPLY WITH MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS FOR INSTALLATION OF SEALING FITTINGS AND BARRIER SEALING SYSTEMS.





COMcheck Software Version 3.1 Release 1
Lighting and Power Compliance
Certificate

Standard 90.1-2004

Report Date: 06/26/06
Data filename: S:\2006\905a\Lighting\Untitled.doc

Section 1: Project Information

Project Title: New Maintenance Building

Construction Site:
Snow Canyon State Park
St. George, UT 84770

Owner/Agent:

Designer/Contractor:

Section 2: General Information

Building Use Description by:
Project Type: New Construction

Building Type: Workshop
Floor Area: 1600

Section 3: Requirements Checklist

Interior Lighting:

- ☐ 1. Total actual watts must be less than or equal to total allowed watts.
- | Allowed Watts | Actual Watts | Complies |
|---------------|--------------|----------|
| 2100 | 1190 | YES |
- ☐ 2. But signs 6 Watts or less per side.

Exterior Lighting:

- ☐ 3. Comply with Sections 9.4.4 and 9.4.5 of 90.1-2004 and attach documentation.

Controls, Switching, and Wiring:

- ☐ 4. Independent manual or occupancy sensing controls for each space (remote switch with indicator allowed for safety or security).
- ☐ 5. Occupancy sensing control in classrooms, conference/meeting rooms, and employee lunch and break rooms.
- Exceptions:*
Spaces with multi-zone control; shop classrooms, laboratory classrooms, and preschool through 12th grade classrooms.
- ☐ 6. Automatic shutoff control for lighting in >5000 sq ft buildings by time-of-day device, occupant sensor, or other automatic control.
- Exceptions:*
24-hour operation lighting; patient care areas; where auto shutoff would endanger safety or security.
- ☐ 7. Master switch at entry to hotel/motel guest room.
- ☐ 8. Separate control device for display/accent lighting, case lighting, task lighting, nonvisual lighting, lighting for sale, and demonstration lighting.
- ☐ 9. Photoelectric/automatic time switch on exterior lights.

Page 1 of 3

Exceptions:
Covered vehicle entrance/exit areas requiring lighting for safety, security and eye adaptation.

- ☐ 10. Tandem wired one-lamp and three-lamp ballasted luminaires (No single-lamp ballasts).
- Exceptions:*
Electronic high-frequency ballasts;
Luminaires not on same switch;
Recessed luminaires 10 ft. apart or surface/pendant not continuous;
Luminaires on emergency circuits.

Voltage Drop:

- ☐ 11. Feeder conductors have been designed for a maximum voltage drop of 2 percent.
- ☐ 12. Branch circuit conductors have been designed for a maximum voltage drop of 3 percent.

Section 4: Compliance Statement

Compliance Statement: The proposed lighting design represented in this document is consistent with the building plans, specifications and other calculations submitted with this permit application. The proposed lighting system has been designed to meet the Standard 90.1-2004 requirements in COMcheck Version 3.1 Release 1 and to comply with the mandatory requirements in the Requirements Checklist.

Principal Lighting Designer-Name

Signature

Date

Section 5: Post Construction Compliance Statement

Record Drawings and Operating and Maintenance Manuals

Construction documents with record drawings and operating and maintenance manuals provided to the owner.

Page 2 of 3



COMcheck Software Version 3.1 Release 1
Lighting Application Worksheet

Standard 90.1-2004

Report Date:
Data filename: S:\2006\905a\Lighting\Untitled.doc

Section 1: Allowed Lighting Power Calculation

A	B	C	D
Floor Area	Allowed Watts / ft ²	1.4	Allowed Watts
Workshop	1600	1.4	2100
Total Allowed Watts =			2100

Section 2: Actual Lighting Power Calculation

A	B	C	D	E
Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	Lamps/ Fixture	# of Fixtures	Fixture Watt.	(C X D)
Linear Fluorescent 1: A-8' Industrial Shop / 48" T8 32W / Electronic	4	3	140	420
Linear Fluorescent 2: B- Surface Wrap around / 48" T8 32W / Electronic	2	11	70	770
Total Actual Watts =				1190

Section 3: Compliance Calculation

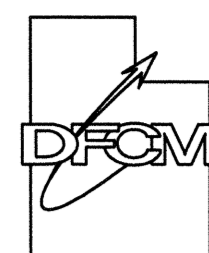
If the Total Allowed Watts minus the Total Actual Watts is greater than or equal to zero, the building complies.

Total Allowed Watts = 2100
Total Actual Watts = 1190
Project Compliance = 010

Lighting PASSES: Design 45% better than code.

Page 3 of 3

State of Utah
Department of Administrative Services



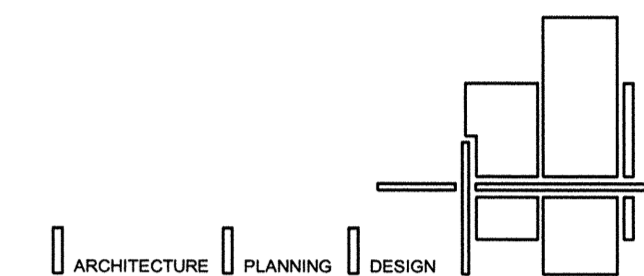
Division of Facilities
Construction & Management
4110 State Office Building
Salt Lake City, Utah 84114
Phone: (801) 538 - 3018
Fax: (801) 538 - 3267

Internet: <http://www.dfc.state.ut.us>

CREATED BY: P+A architects

P+A architects

821 East Kensington Ave.
Salt Lake City, Utah 84105
P: 801.484.1161
F: 801.485.4840
e-mail: parchitects@comcast.net



BUILDING NAME:

DEPARTMENT OF NATURAL
RESOURCES
NEW MAINTENANCE
BUILDING

SNOW CANYON
STATE PARK
IVINS, UTAH 84738-9999

PROJECT TITLE:

SNOW CANYON
STATE PARK
IVINS, UTAH 84738-9999

NEW MAINTENANCE
BUILDING

DEPARTMENT OF NATURAL
RESOURCES

MARK DATE DESCRIPTION

ISSUE TYPE: REVIEW DOCUMENTS

ISSUE DATE: 18th OCTOBER, 2006

DFCM PROJECT NO:

CAD PROJECT NO: 2006-06

CAD DWG FILE:

DRAWN BY: BRIAN AND SCOTT

CHK'D BY: SCOTT

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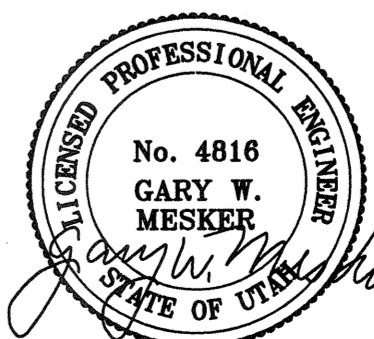
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LIGHTING
COMPLIANCE
CERTIFICATE

SHEET NUMBER

EG103

SHEET 26 OF 28

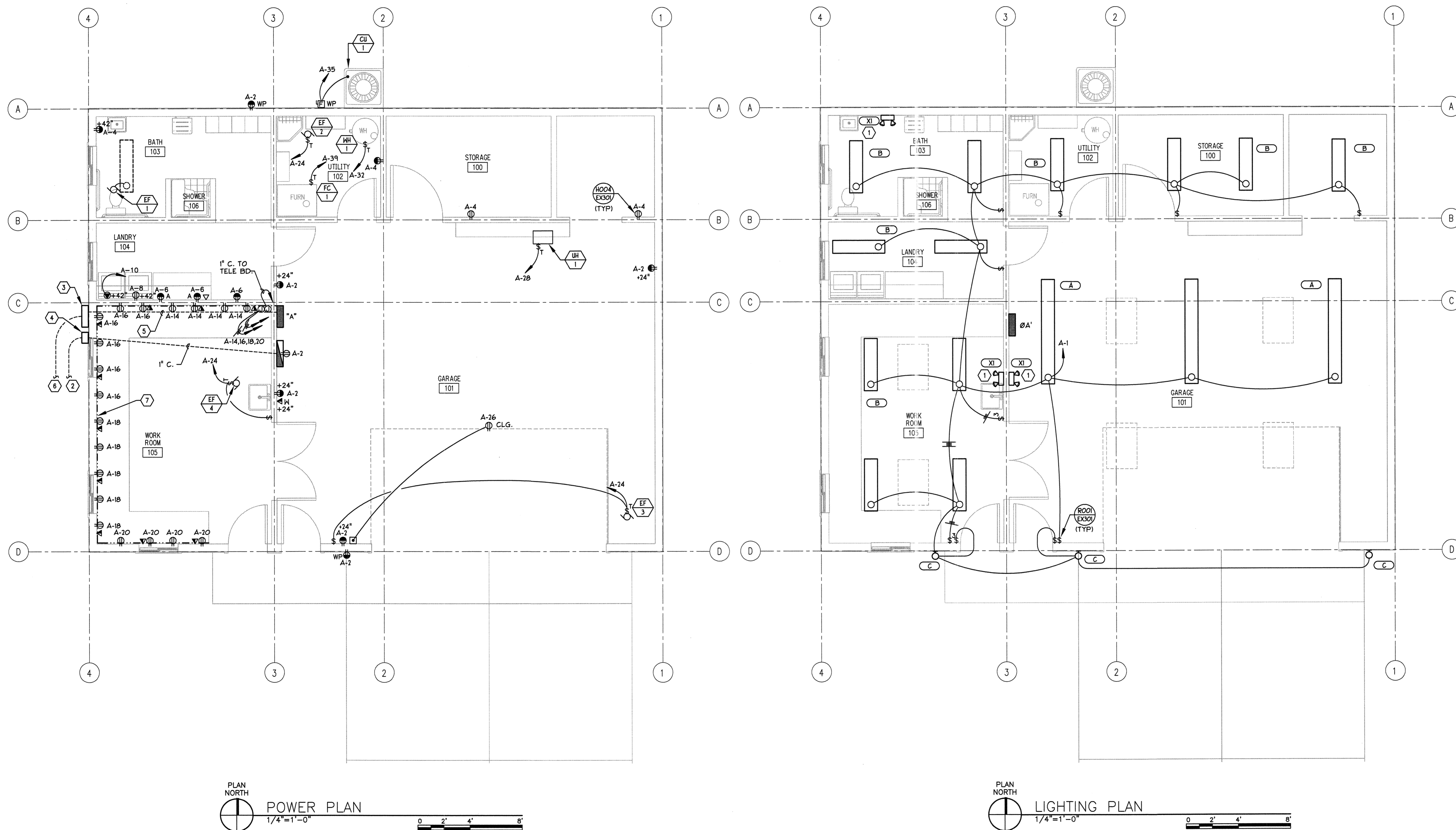


ISSUE DATE: 18th OCTOBER, 2000

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CAD PROJECT NO:	2006-06
CAD DWG FILE:	
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SHEET TITLE	

SHEET NUMBER

SHEET 27 OF 28



SHEET KEYNOTES

1. CONNECT EMERGENCY EXIT/EGRESS LIGHT FIXTURE TO UNSWITCHED CONDUCTOR OF NEAREST 120 VOLT LIGHTING CIRCUIT
2. EXISTING TELEPHONE SERVICE ENTRANCE CONDUIT TO REMAIN.
3. PROVIDE NEW 120/240 VOLT SINGLE PHASE DIRECT CONNECT METER BASE AND MAIN BREAKER PER ROCKY MOUNTAIN POWER REQUIREMENTS. SEE ONE LINE DIAGRAM SHEET E0101.
4. PROVIDE NEW WEATHERPROOF TELEPHONE CABINET PER QWEST REQUIREMENTS.
5. PROVIDE 2" CONDUIT WITH 3 #3/0 THHN CU. & 1 #6 GROUND FROM METER BASE TO NEW PANEL A'. SEE ONE LINE DIAGRAM SHEET E0101.
6. EXISTING SERVICE ENTRANCE CONDUIT AND CONDUCTORS TO REMAIN.
7. PROVIDE TWO COMPARTMENT SURFACE MOUNTED NON METALIC RACEWAY EQUAL TO WIREMOLD5400 SERIES WITH DEVICES AS INDICATED.

PLAN NORTH

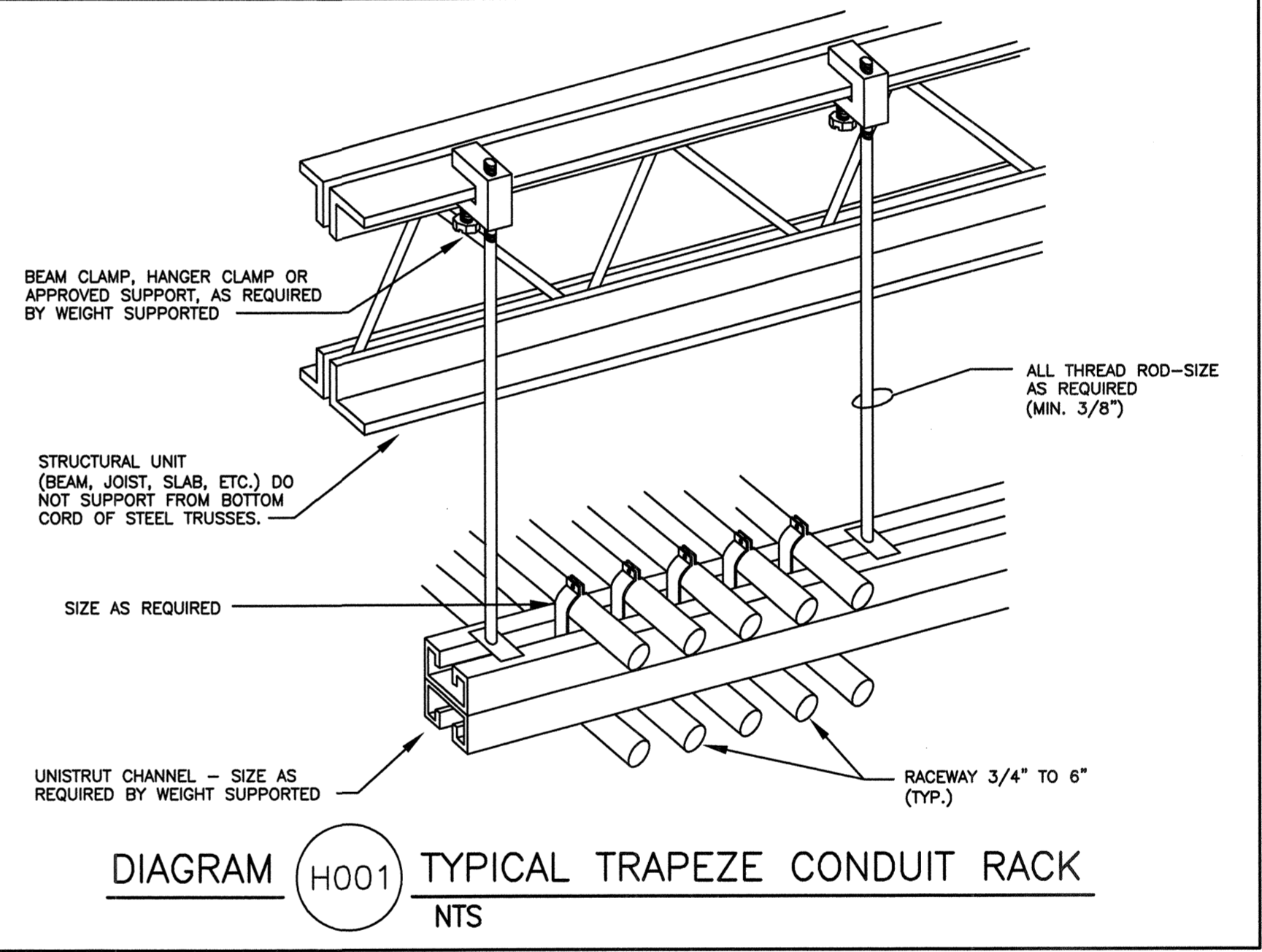
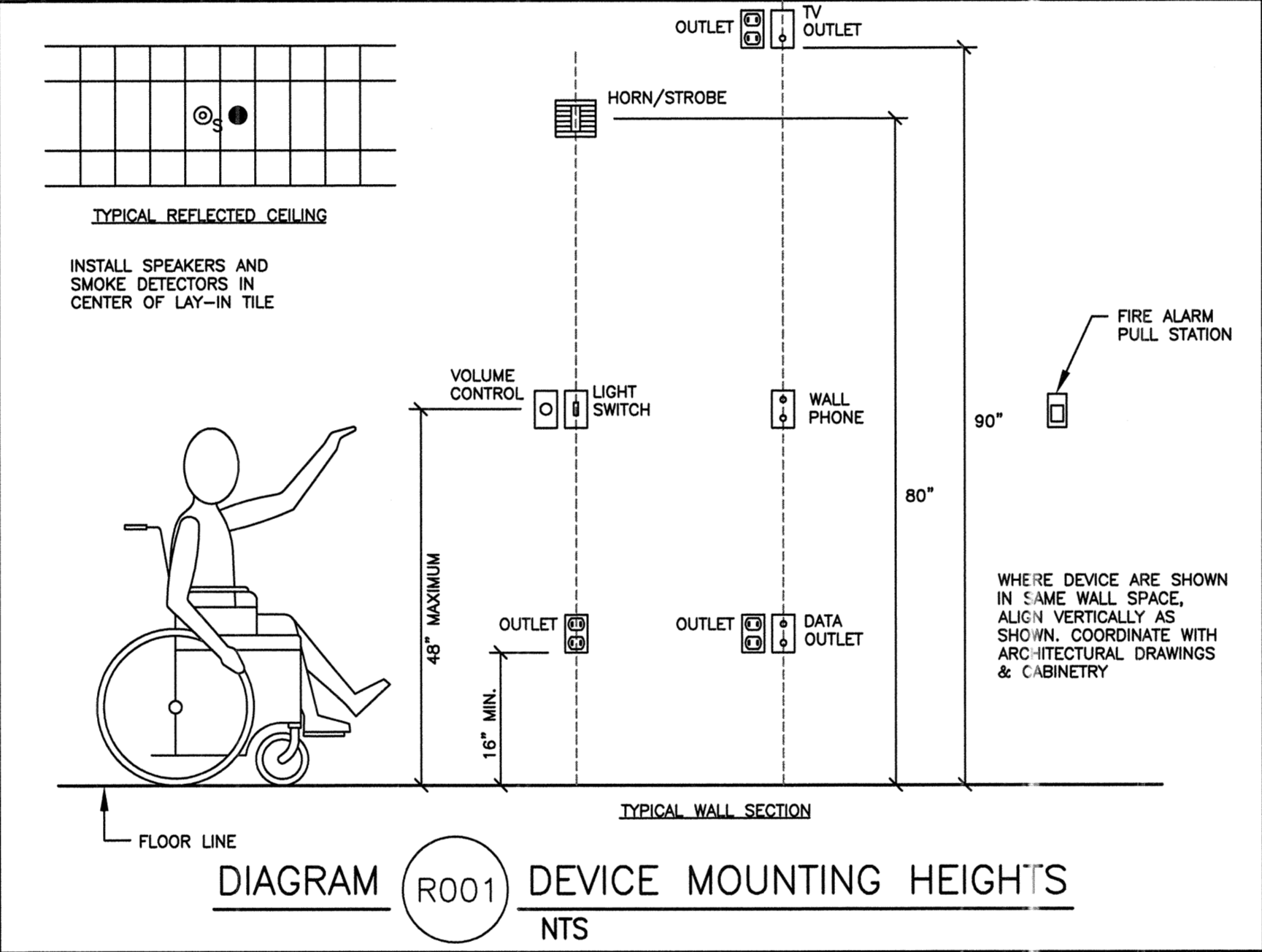
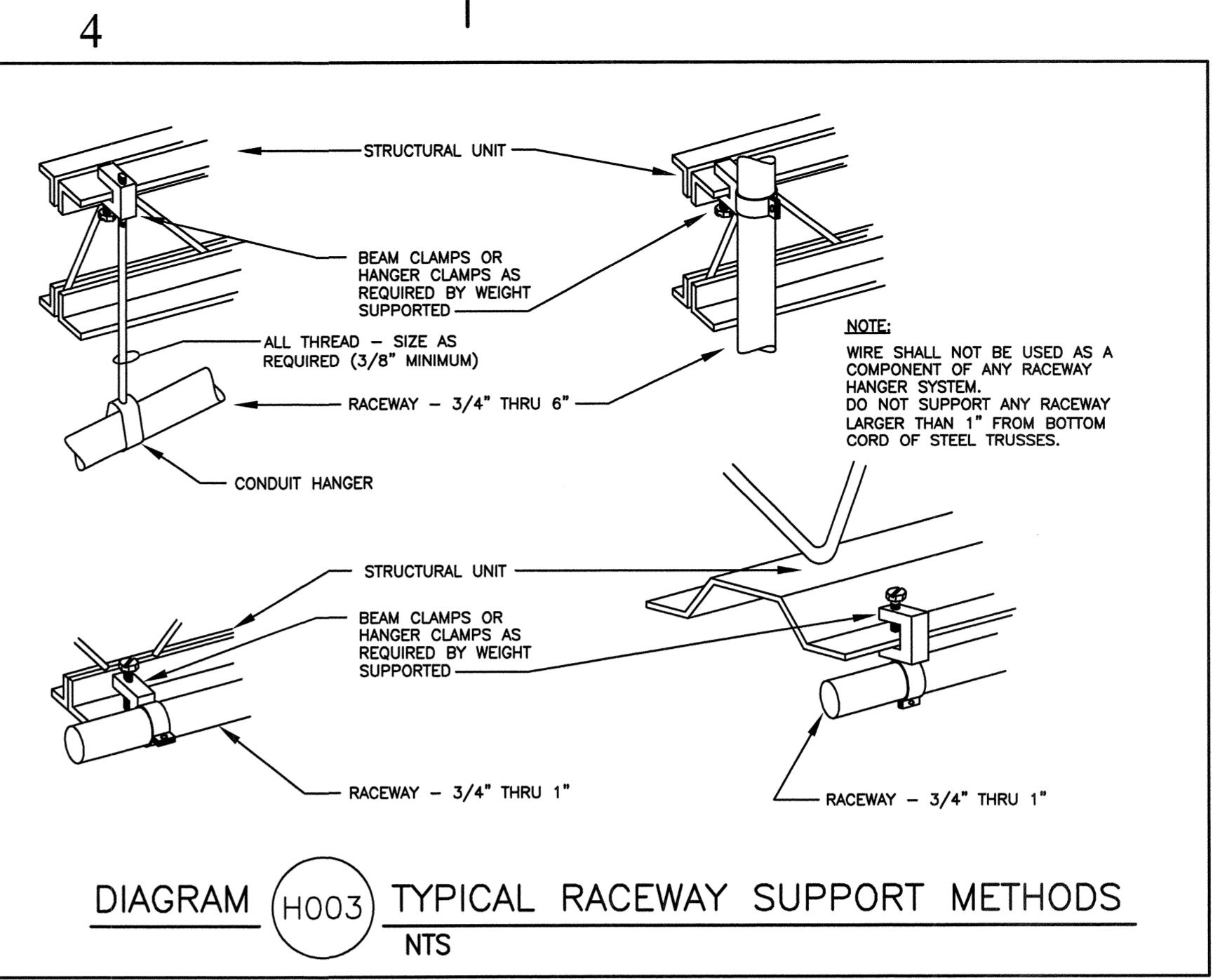
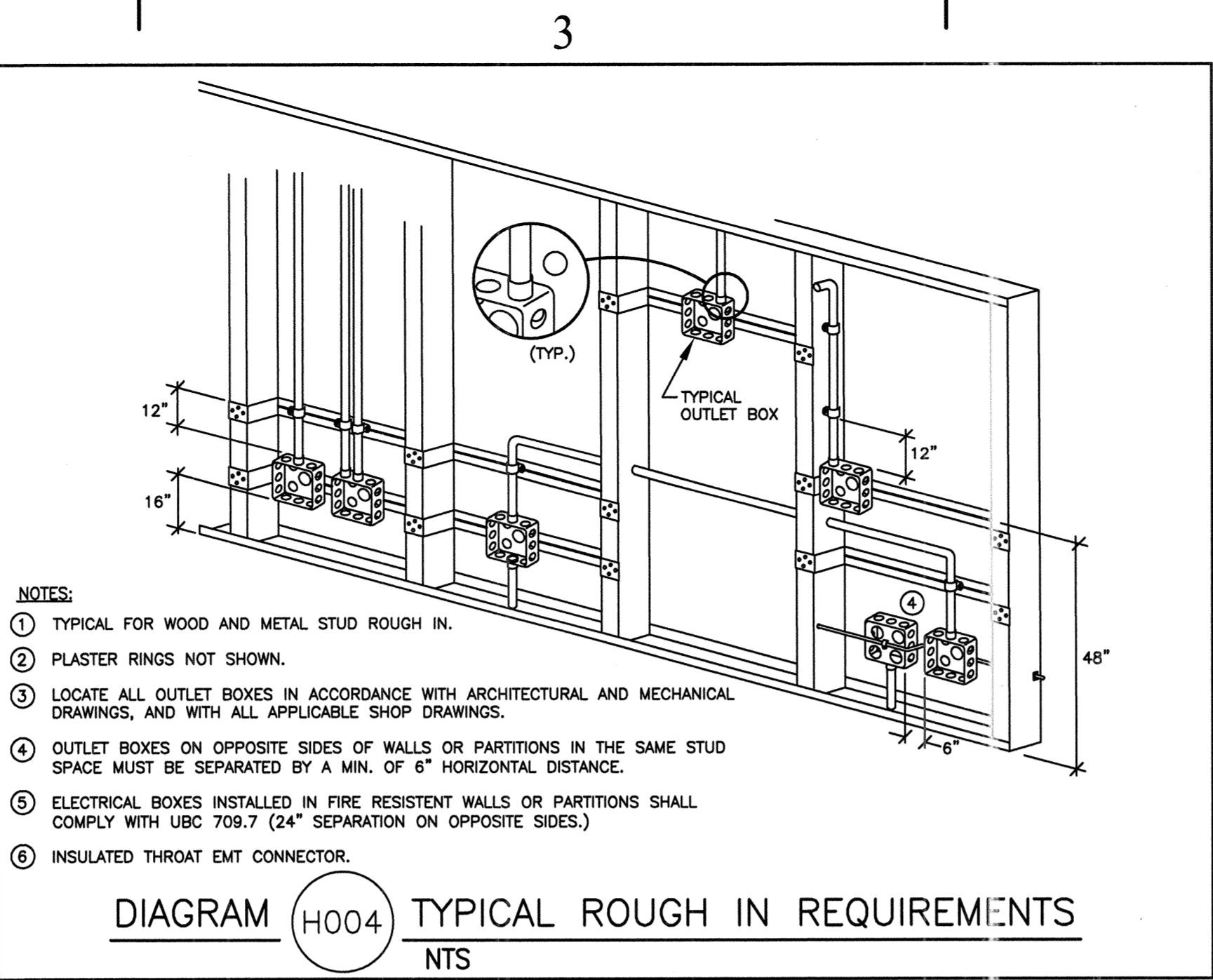
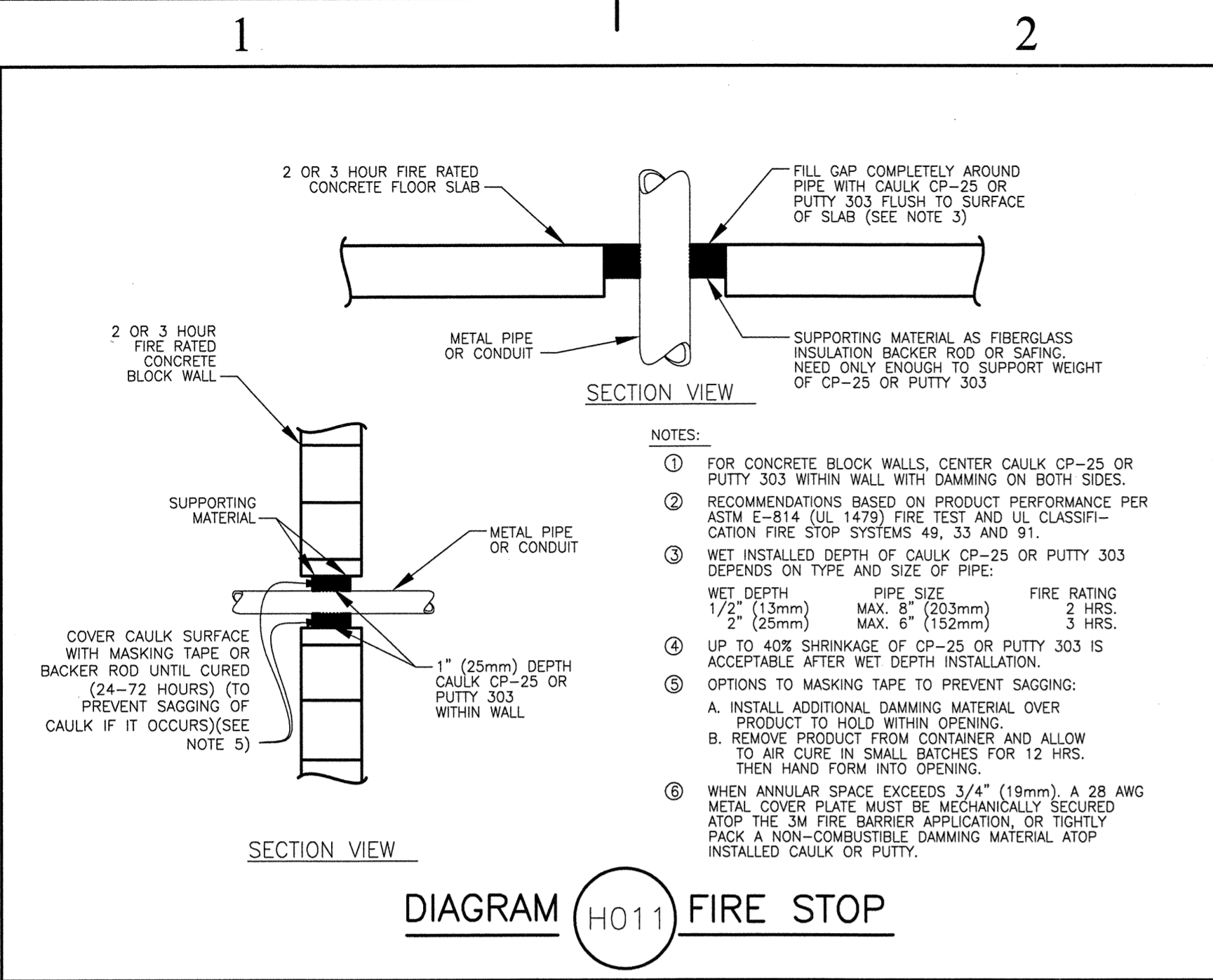


LIGHTING PLAN

PLAN NORTH

POWER PLAN

$1/4" = 1'-0"$



MARK	DATE	DESCRIPTION
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ISSUE TYPE: REVIEW DOCUMENTS

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SHEET TITLE

ELECTRICAL
DIAGRAMS

SHEET NUMBER

EX301

SHEET 28 OF 28

